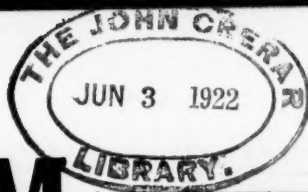


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ISSUED EVERY WEDNESDAY

# DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy  
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME X.

NEW YORK, MAY 31, 1922

No. 22



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**Saccharin**  
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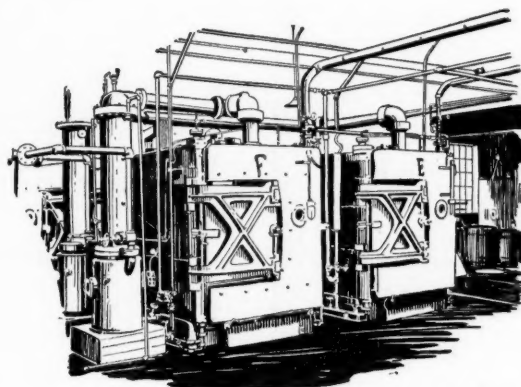
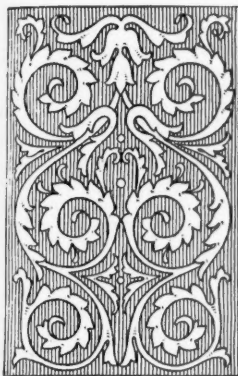
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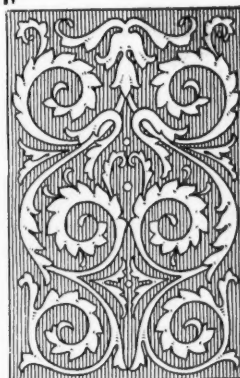
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A dyestuff may be correctly produced and precipitated, but it can be considerably dulled in shade or entirely decomposed during its drying by a sudden rise in temperature of a few degrees.

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One of the first to realize the natural geographic advantages of the section for manufacturing purposes was the Central Dyestuff & Chemical Co., which undertook the manufacture of an extensive line of dyestuffs back in 1898. The company make most of the intermediates entering into the manufacture of its Acid, Basic Chrome and Direct Colors.

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In conjunction with these, the Consolidated Color & Chemical Co. also produces a line of sizing, softening, bleaching and finishing materials, known to the trade as the "VICTORIA" products.

The products of the two companies are distributed through the sales organization of H. A. Metz & Co., Inc., having its principal office at 122 Hudson Street, New York, with branches in Boston, Providence, Chicago, Philadelphia, Charlotte and San Francisco.

In addition to these *Made-in-America* products we will procure for you on import licenses colors not as yet made here in sufficient quantity or of suitable quality or at reasonable prices.

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**H.A. METZ & CO. Inc.**  
One Twenty-Two Hudson Street New York City.  
Boston Philadelphia Providence  
Chicago Charlotte San Francisco

ISSUED EVERY WEDNESDAY

## DRUG & CHEMICAL MARKETS

PUBLISHED EVERY WEDNESDAY BY

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## Table of Contents

### EDITORIALS—

Camouflaged Prices .....	1231
Photography in Industry .....	1231
Freight Rates and Wages .....	1231
Tariff on Drug Sundries Discussed. By Carl F. G. Meyer .....	1232

### FEATURE TRADE ARTICLE—

The Library's Place in Business. Books as Practical Aids in Boosting Business as Demonstrated by Use in Leading Industrial Organizations. By A. W. Kenney, Ph.D., and Elizabeth Vinsonhaler, M.S. ....	1233
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### TRADE NEWS—

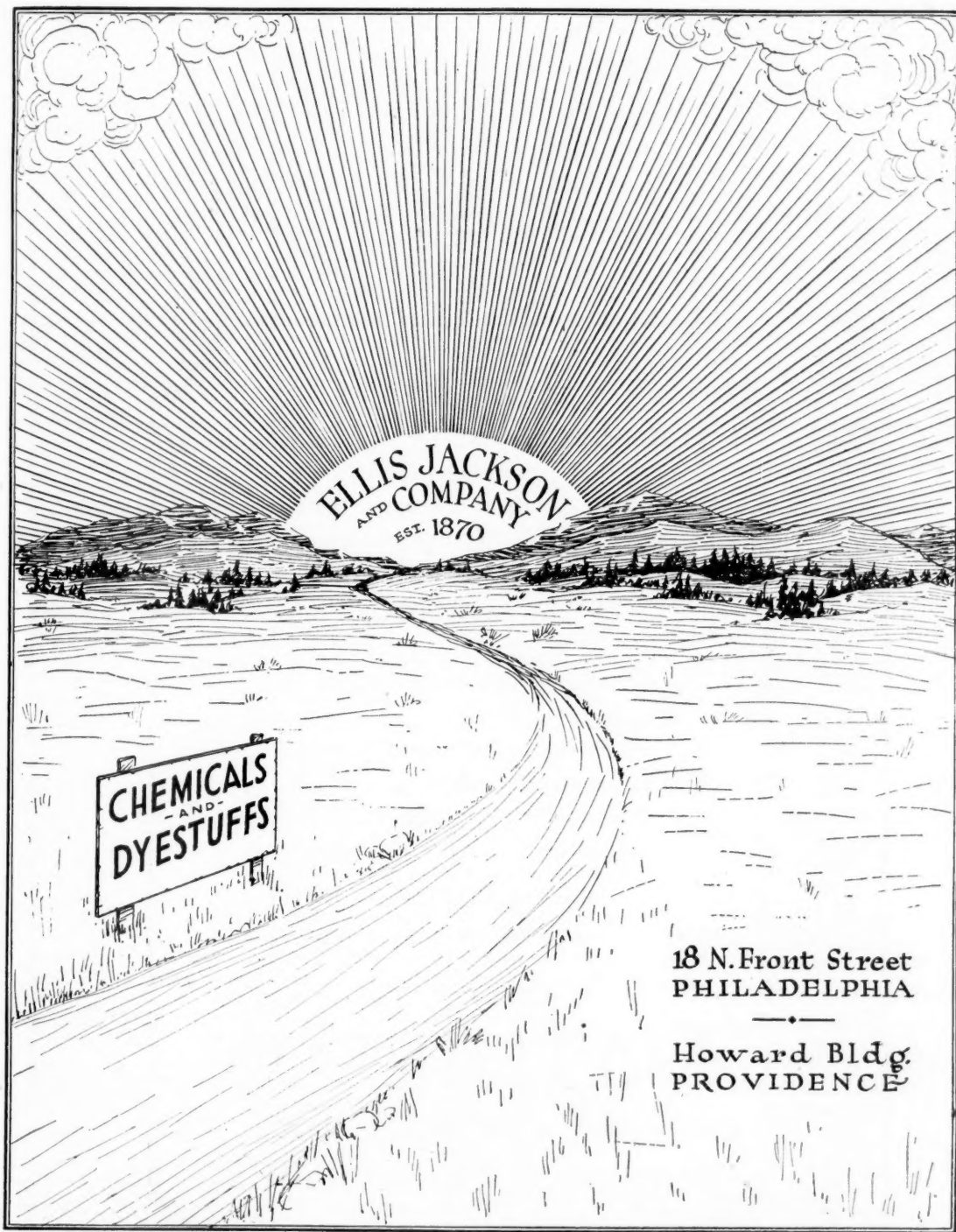
Dye Rates in Tariff Bill, Passed Over Temporarily Owing to Senator King's Illness, Now Being Considered .....	1235
Committee on Standards for Fastness Submits Report to Council of Dyes and Colors ...	1235
Books of Trade Interest .....	1236
New Incorporations .....	1237
Warning that Numerous Alcohol Permits are Missing is Issued by the Prohibition Commissioner .....	1241
Britain May Require "Country of Origin" Mark on Imported Goods .....	1252
Dye Prices Continue to Decline in Tokyo ..	1253
Bureau of Chemistry Starts Campaign to Eliminate Dirt From Crude Drugs .....	1247
Canadian Chemists Discuss Value of Research Work in the Industries .....	1253

### MARKET REPORTS—

Heavy Chemicals .....	1238-1239
Fine Chemicals .....	1240-1241
Intermediates and Dyes .....	1242-1243
The Oil Market .....	1244-1245
Crude Drugs .....	1246-1247
Essential Oils .....	1248-1249
The Consuming Industries .....	1250-1251
Foreign Market .....	1252-1253

PRICES CURRENT .....	1254
IMPORTS .....	1273
WANTS AND OFFERS .....	1275
BUYERS' GUIDE .....	1277
INDEX TO ADVERTISERS .....	1278







THE South is famous for its hot breads, its waffles, its griddle cakes and the southern manufacturers of self-rising flours are the most critical buyers of bicarbonate of soda in the country. Competition among them is keen, and business success is won strictly upon the merit of the goods offered to the discriminating housewives of the South.

Quality of their raw materials is, therefore, their first consideration, and we believe that it is a significant compliment of our product that over 95% of the southern self-rising flour makers specify the "Eagle-Thistle Brand" of the Mathieson Alkali Works, Inc. when purchasing bicarbonate of soda.

The commodity is produced so carefully that it is commonly repacked and merchandised as a reagent chemical.

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ISSUED EVERY WEDNESDAY

# DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME X, NUMBER 22

[MAY 31, 1922]

## CAMOUFLAGED PRICES

"Purchasing agents have always appreciated that price alone, without due consideration of value and service, is an unstable and unwise basis for the purchase of basic commodities, and that prompt and accurate price information is fundamental to purchasing upon the sound foundation of value. Now, therefore, we the members of the National Association of Purchasing Agents in Seventh Annual Convention assembled at Rochester, N. Y., commend the constructive efforts being made to have published for the benefit of buyers and sellers reliable market information. Therefore, be it resolved, that producers of basic commodities be urged to cooperate by announcing openly their prices and terms, standardizing their grades and packings, and working to the common end of placing these key industries producing crude materials upon a sound and modern basis of distribution."

Could an appeal from a more representative body of buyers for the elimination of camouflage in price quotations, be clearer? If these buyers could read prices in the trade press which they knew without a doubt were official and authoritative, and could not be shaded, would all their efforts be concentrated in beating down prices that they know are above the levels which the seller will actually take? In the last analysis, the buyer holds the whip hand, and, in a battle of secret prices with a seller, must of necessity take on the garb of a "price pirate" in self-defense. Until all prices, more particularly for chemicals and drugs, are made public—that is, real prices divested of all camouflage and "bunk,"—buyers will continue to be "pirates" and sellers will continue to come out of the "wrong end of the horn."

To those who believe that real prices cannot be published successfully, the following from a recent issue of *The Iron Age* is offered in refutation:

"The latest evidence of ways in which an association of business men can use its influence to bring about better commercial methods was furnished by the National Association of Purchasing Agents at its convention in Rochester last week. Under the leadership of Williams Haynes, who has had long experience in publishing a drug and chemical journal, a decided stand was taken in favor of reliable market information and producers of basic commodities were urged to co-operate by announcing openly their prices and terms. Such action was not necessary so far as the iron and steel business is concerned. Indeed, for a reader of an iron trade journal, accustomed to complete and accurate market reports, the statements made by Mr. Haynes

in regard to what he called "camouflaged prices," were much of a surprise. The effort to obtain accurate market reports, inaugurated many years ago in the iron industry by David Williams, founder of *The Iron Age*, and carried on by others, has reached a degree of success not known in chemical and some other industries. May all the trade journals have the same success in getting the facts as have those devoted to iron and steel."

Only one answer presents itself for the chemical industry,—"Open prices, openly determined." Throw off the camouflage, let the real price be published, and possibly the buyer will not have to continue a "price pirate" in self-defense.

## PHOTOGRAPHY IN INDUSTRY

Photography as related to industrial operations, especially in connection with the microscope, has made great strides within the last few decades and is coming more and more to be recognized as a necessary tool, both of the scientific investigator and the industrial laboratory worker. On May 10, an organization of workers in this field, known as the Society of Technical and Micrographic Photography, was formed to promote the interchange of ideas on applications of this valuable method of investigation among its members.

The field for the industrial use of microscopy and photography is virtually as broad as industry itself. Their use is well developed in the fields of textiles, metallurgy, paint, paper, pharmacognosy, and surgery, and is rapidly spreading to other fields where the revelations of the microscope are receiving recognition as superior in every way to the results of the ordinary chemical analysis wherever the physical structure of the substance is under investigation.

The usefulness of an association devoted to this art is unquestionable and *DRUG & CHEMICAL MARKETS* bespeaks the support of its readers who are in the least interested in the objects of the society. The first official meeting of the new society is scheduled at a luncheon on June 14, at the Hotel Astor, New York.

## FREIGHT RATES AND WAGES

The ten per cent cut in railroad freight rates ordered by the Interstate Commerce Commission was a shock to railway executives, who did not expect any drastic ruling until after the Labor Board had authorized wage reductions. Unexpected as the decision may be to the railroad men, it will lead to increased business in all active lines of business, and will prove to be an important



factor in restoring normal trade conditions. The Commission announced that it regarded 5¼ per cent as a reasonable return on the invested capital of the railroads. In order to earn even this percentage profit, the rail executives claim that wage reductions are necessary.

The business world was on tiptoe awaiting the Labor Board's decision on this point, because the reduction in freight rates would benefit shippers only to a limited extent if the action of the Labor Board should cause a strike on the trunk lines.

It is to be hoped that the estimate of \$225,000,000 loss in revenue, made by an official of a leading road, is an over-statement of the case. The Bureau of Railway Economics has taken up the matter and will probably make an official announcement of its computation of the loss, before July. The Bureau figured that the cuts made by the railroads since August, 1920, have reduced the roads' revenues to the extent of \$200,000,000 a year. The situation is serious and calls for caution and good judgment to avoid serious labor trouble that might tie up the industries as well as the railroads, by making it difficult to obtain raw materials or ship the finished goods.

#### TESTS FOR AMERICAN DYES

The National Council of Dyes and Colors has taken a long step forward by formulating color tests for wash goods and submitting them, together with recommendations, to the industries desiring to co-operate in securing dye fastness in materials that must pass through certain processes week after week in being cleansed. The Council is made up of chemists, practical workers in the textile field, and experienced business men who know what is necessary and what is possible in the difficult problems presented.

The Council has made a study of the tests which textiles must be able to withstand, and is seeking to aid manufacturers as well as consumers by making recommendations to cover the various ordeals of light, washing, soaps, acids, and perspiration, and thereby counteract the widespread propaganda to the effect that American dyes are not as fast as certain foreign dyes. Leading manufacturers say that American dyes, type for type, are equally fast, and if used properly by experienced dyers give results equally satisfactory.

Speaking of a broad and various business experience, as they were at the Druachem Club the other day at lunch, it was agreed the first-hand crude drug merchant "does everything except get to Heaven," which, as one of them added is hard, because "life for us is Hell on earth."

Some Senators seem to be offering amendments to the tariff bill to win the approval of the general storekeepers at the cross-roads, the farmers and the miners at home rather than to protect American industries from destruction and keep American wage workers employed.

A sales argument not connected with a lower price is to be found by chemical salesmen on our Consuming Market page this week.

### Editor's Correspondence

#### Tariff on Drug Sundries

The Editor, DRUG & CHEMICAL MARKETS.

In submitting your questions on the tariff to 12 of our buyers in various lines, the consensus of opinion seems to be that certain lines, particularly in the chemical and dye fields, should be protected by a reasonably high tariff while other items, particularly in the sundries line, while perhaps subject to an increased tariff, should not be placed at a serious disadvantage because of a prohibitive tariff rate imposed. The world as a whole must be considered. The American manufacturer and American laborer should be protected but not to the extent as to absolutely preclude the possibility of foreign competition, assuming that we expect Europe to rehabilitate itself as result of its ability to sell in this country.

Our opinion is that the golden rule covers the situation and a live-and-let-live policy must be observed for the good of all concerned. American producers must have an opportunity to live, yet they must have competition to stimulate their efforts, and the American consumer must be considered at all costs. Generally speaking, we favor a reasonable policy; a tariff that considers primarily the welfare of our country, not overlooking, however, the absolute necessity of making it possible for the depleted exchequer of Europe as a whole to replenish itself by fair and liberal tax laws.

Meyer Brothers Drug Co.

Carl F. G. Meyer, President.

St. Louis, Mo., May 20, 1922.

#### WHO WAS THIS?

A heavy chemical salesman by mistake handed a sales executive, upon whom he had been calling a portrait of his betrothed instead of his business card, saying he represented that corporation. The sales executive examined it carefully, remarked that it was a fine house, and returned it to the astonished and blushing traveler, saying, "I hope you will soon be admitted into partnership."

The University of California gold medal, awarded annually to the most distinguished student, was conferred by President William P. Barrows, upon Waldo Westwater, of Mt. Hamilton, at the graduation exercises held in the Greek Theatre, Berkeley, on May 17. Young Westwater's major study was chemistry and he was graduated with highest honors in the department of chemistry, receiving the degree of bachelor of science.

The bill introduced in the Ontario Legislature to render illegal the fixing of a re-sale price on commodities by manufacturers has been withdrawn for the present and referred to a special committee which will meet after the session is over and give a hearing to all interested in the proposed legislation. The bill was strongly opposed by druggists.

Reductions of about 10 per cent in railroad freight rates, effective July 1, are called for in a decision of the Interstate Commerce Commission, just announced. With the exception of farm products, practically all classes of traffic are affected by the ruling. Railroad executives claim that the reduction means a loss of \$225,000,000 in revenues of the roads.

Members of the Olympic Chemical Club, Tacoma, Wash., have formed a Chemical Engineers' Council to aid in inducing new industries to locate at Tacoma, and to improve the sanitation and water supply of the city.

# The Library's Place in Business

## *Books as Practical Aids in Boosting Business as Demonstrated By Use in Leading Industrial Organizations*

By A. W. KENNEY, Ph.D., and ELIZABETH VINSONHALER, M.S., E. I. du Pont de Nemours & Co.

**T**HE primary problem in the organization of a new library is naturally the choice of the technical books and periodicals. Since the appropriation is usually limited, this choice must be made with care, and the person in charge of the library should secure the co-operation of the technical staff so that their needs may be fully appreciated. The drawing up of the final list of purchases should certainly be made with the collaboration of a chemical advisor who is in hearty sympathy with the work of building up the library. It is of assistance, of course, in selecting material if libraries similar to the one to be organized can be visited or the assistance of a librarian specialized in chemical work can be obtained.

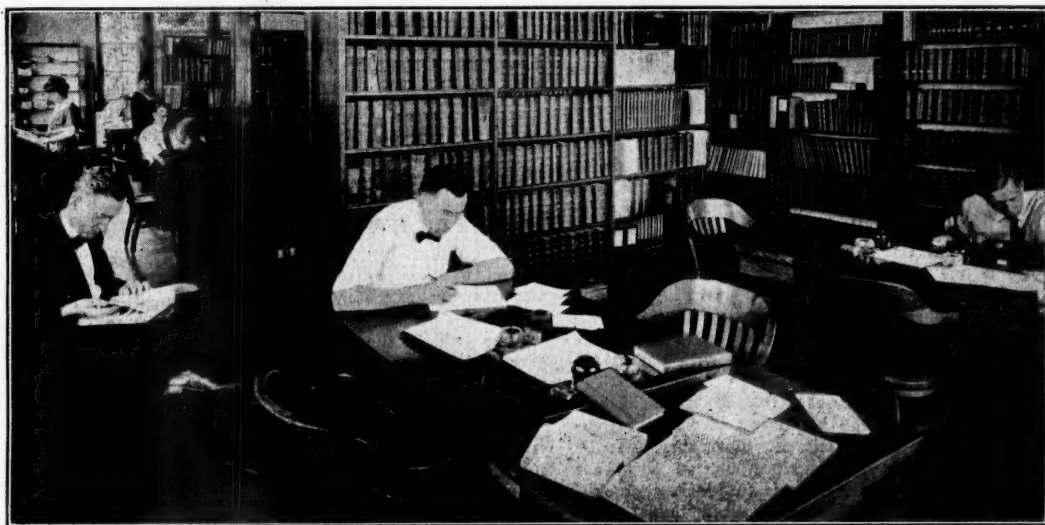
For any industrial concern in chemical work the patent literature is sufficiently important to deserve special consideration. If it is desired to work up a file of patents for some years back, orders may be placed with the patent office for specific classes for specific years. If, however, it is desired only to build up a patent file as the patents appear, current subscriptions may be taken for specific classes or sub classes and the library will then receive all such patents as issued. In any event, the library will doubtless wish to subscribe to the U. S. Patent Gazette, and if the interests of the company are wide it may subscribe to the patent journals of other countries. The British Illustrated Official Journal is of special value, since, owing to the English patent procedure, patents which are taken out under the International Convention are printed in that country before they appear either in Germany or in the United States.

The publications of the various scientific bureaus of the Federal Government constitute an extremely valuable source of information. Lists of publications by the different Bureaus may be obtained from the Superintendent of Documents. A final and important source of information which should not be neglected is the literature published by manufacturing firms, such as trade catalogs, pamphlets, etc.

### Arrangement of Material

After the purchase of the material, its arrangement is the next consideration. Books are classified, and in many libraries the bound periodicals are included in the classification. Patents are usually filed numerically in cabinets, though in some cases all the patents on a special subject may be bound together in book form. The former practice is much simpler, and is very satisfactory if each patent has been carefully indexed by subject. Pamphlets may be put in binders and shelved with the books or kept in vertical filing cabinets. The trade catalogs are filed alphabetically by firm name.

The library having been organized and its material assimilated, there is the constant problem of keeping it up to date in the lines in which it specializes. For this purpose the librarian will find it most desirable to review the book review sections of the various technical journals, as, for instance, the bibliographic section of the Journal of Industrial and Engineering Chemistry. He will also need the advice of the technical staff in selecting the best of the material published and rejecting the less important. Many of the large public libraries (e. g. New York, Pittsburgh)



The du Pont Library at Wilmington, Del. containing over 5,000 books.—A typical example of the library of a big business organization



issue accession lists of technical books, but these generally arrive long after the books are published and do not include specialized literature. The large publishing houses are glad to place any library on their mailing lists and inform them of their recent publications along the line in which the library is interested.

No library, however, becomes so complete that it is never necessary to borrow material from outside sources. The knowledge of where books and more particularly periodicals can be borrowed is therefore necessary. The libraries of many of the large cities, for example, New York, Chicago, Philadelphia, Boston, have issued catalogs of the periodical literature available in the different libraries of their city. The Government libraries have extensive collections and are usually very generous about making loans. Often, however, a library is unwilling to lend a book which would be difficult to replace, but is willing to make photostat copies for any library which will meet the expense.

In addition to the technical literature there are certain books which the librarian will find extremely useful. Such reference books for example as Thomas' Register of American Manufacturers, and the Condensed Catalog of Mechanical Equipment (issued by the American Society of Mechanical Engineers) are a great convenience.

#### Cataloging

The work of cataloging is one of fundamental importance in library work and a trained librarian will naturally be familiar with such desirable hand books as the American Library Association Catalog rules, Library of Congress' Handbook of Card Distribution, Rules for Filing Cards issued by the Carnegie Library of Pittsburgh, and Kaiser's Systematic Indexing, among others. The choice of the subject headings under which material will be filed in the catalog is a difficult one, and careful consideration must be given to the exact nature of the material and to the angle from which it will be viewed by the technical staff. Lists of subject headings are issued by the Library of Congress and the American Library Association. These are too general, however, to be satisfactory to chemical librarians, who deal with a special field. The index of Chemical Abstracts is useful in this connection as being detailed and specific. However, it is doubtless necessary for each librarian to work out his own solution of this problem, making a record of all subject headings used and introducing numerous cross references. In doing this the assistance of a trained chemist is absolutely necessary.

#### Demands on a Library

There are two sorts of demands ordinarily made on the library staff: the request for a specific piece of information, technical datum or reference, or an inquiry for all the information on a given subject, which involves a careful search of all available sources. In taking up a new problem it is customary for the library staff to make a comprehensive investigation and report on the work already published in relation to the contemplated work. A similar search of the "state of the art" is often made in connection with patent applications.

It is not sufficient, however, to search the literature up to the time of the beginning of an investigation and then stop. The current literature must be scanned for more recent contributions, as they are published. The du Pont Experimental Station subscribes to about 100 magazines and all technical journals are scanned at once and articles of interest to the various members of the technical staff are referred directly to them. This work of "keeping up to date"

is co-operative, and many valuable suggestions for additions to the library are received from the technical men.

The need to keep informed of the latest developments in chemical technology requires an international outlook. British, French, and German literature are used constantly. Less frequently articles in Italian or in Dutch are obtained. Occasionally an article from Japan is requested, and the importance of the work of the Russian physical chemists has made it necessary to refer to some of the articles in the original Russian.

#### W. G. LANGFORD TALKS TO SALESMEN

Knowledge of markets and business conditions forms an essential part of the equipment of buyers and sellers equally, according to W. G. Langford, purchasing agent of the Richmond Radiator Co., addressing the New York Chapter of the Salesmen's Association at the Advertising Club, on May 25. "Middlemen, in the majority of cases, are unnecessary expenses and their profits testify to the stupidity of many buyers." The idea of having a purchasing agent address the organization instead of a sales executive as heretofore was well received by the association.

T. R. L. Loud was appointed, upon vote of the chapter, to arrange an outing for the association to take place sometime in July. No plans have been announced for this outing as yet. The association will hold its annual meeting during the week of the Chemical Show in September, and the next meeting of the New York Chapter will be held in October.

#### TO INVESTIGATE FERTILIZER COMPANIES

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., May 31.—The leading fertilizer companies are to be "investigated", as a result of the testimony of Francis Hawes, of the Federal Trade Commission, before the Senate Committee on Agriculture, in connection with the Muscle Shoals enquiry. Mr. Hawes declared that 50 per cent of American fertilizer production was controlled by seven companies, and that they were in agreement respecting prices, production and distribution of territory.

The seven companies named by Mr. Hawes as being in a fertilizer trust were the Virginia-Carolina Chemical Co., the American Agricultural Chemical Co., the Armour Fertilizer Works, the International Agricultural Corporation, the F. S. Royster Co., Swift & Co., and Baugh Sons & Co. Mr. Hawes said these were known as the "big seven" of the fertilizer business.

#### NO PRIOR RIGHT TO MUSCLE SHOALS

An opinion by Attorney General Daugherty submitted to the House Military Committee, holds that the contract executed by the government with the Alabama Power Co. is invalid with respect to the provisions which the power company officials contend give them the right of exclusive purchase of the government's interests in the steam power plant at Gorgas, Ala.

The contract negotiated by the War Department with the Air Nitrates Corporation of New York, a subsidiary of the American Cyanamid Co., under which nitrate plant No. 2 was constructed at Muscle Shoals, Ala., also is held invalid by the Attorney General with regards to the option of exclusive purchase claimed by the corporation in the event the plant ever is disposed of by the government to private enterprises.

# SENATE FIXES FEW CHEMICAL RATES

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., May 31.—The Senate in its discussion of the tariff bill has see-sawed back and forth, during the week between Schedule No. 1, the chemical schedule, and Schedule No. 2, the earthenware. This procedure has been necessitated in part because of the illness of Senator King, of Utah, who will fight against the dyestuff schedule. An agreement was reached to take up the dyestuff schedule on Wednesday, but because of the continued illness of Senator King this agreement was not carried out.

The Senate has taken action on a number of items in the chemical schedule. A duty of 4 cents a pound was placed on casein or lacterene, which was on the free list as the bill passed the House and the duty on which was fought by paper manufacturers.

The Senate also agreed to the Finance committee rate of 45 per cent on calomel after on amendment reducing the duty to 15 per cent had been rejected, 33 to 16. The committee rate was upheld 35 to 16, Senator Norris voting with the Democrats and Senator Broussard with the Republicans.

The Finance committee rate of 25 cents a pound on quicksilver was also upheld in spite of a vigorous vote by Senator Johnson of California for restoration of the House rate of 35 cents a pound. The Johnson amendment was rejected 30 to 25. Senator Johnson contended that the 25 cent rate was utterly inadequate to protect the domestic industry against the competition of Spanish quicksilver mined with convict labor. Of the 51 quicksilver mines in the United States, he said, only two are running at present. Spanish quicksilver is being laid down at New York for \$40 a flask, a price that could not possibly be met by domestic producers, Senator Johnson said.

Senator Underwood, of Alabama, in opposing the amendment, argued that both the Senate and the House rates were too high. They were designed, he said, to set up an embargo that would maintain the price realized by quicksilver producers during the war when the product was needed for munition-making.

The Senate adopted an amendment offered by Senator Lodge to the gelatin section, striking out the 10 per cent duty on ossein and placing that commodity on the free list. Other rates in this section were agreed to as follows: Edible gelatin, valued at less than 30 cents a pound, 20 per cent ad valorem and 7 cents a pound; valued at more than 40 cents a pound, 20 per cent and 15 cents a pound. Gelatin, glue, glue size and fish glue, not specifically provided for, valued at less than 40 cents a pound, 25 per cent ad valorem and 1½ cents a pound; valued at more than 40 cents, 20 per cent and 15 cents a pound. Casein glue, agar, isinglass and other fish products, cleaned, split or otherwise prepared, and manufactures, wholly or in chief value of gelatin, glue or glue size, 25 per cent ad valorem.

On Monday the Agricultural Tariff Bloc obtained votes enough to reverse the action of the Senate Finance Committee in fixing a duty on cyanide and it was returned to the free list by a vote of 46 to 14.

The rate on magnesite was advanced from \$6.25 per ton to \$10 per ton by a vote of 29 to 22, for the benefit of State of Washington producers. at Nitro for \$3,000,000.

The estate of the late Melvin S. Griffith, president of the Griffith & Turner Co., dealers in fertilizers, Baltimore, according to the inventory filed in the Orphans' Court there on May 12, is valued at \$97,712.13, consisting largely of the interest of the deceased in the business.

# TESTS FOR FASTNESS OF COLORS IN GOODS FREQUENTLY LAUNDERED

National Council of Dyes and Colors Submits Recommendations to Industries Interested—Report Presented by Walter M. Scott of Cheney Brothers—Opinions Wanted as to Their Practical Value

(Special to DRUG & CHEMICAL MARKETS)

Recommendations regarding the tests which colors must be able to withstand to assure dye fastness in goods were submitted by Walter M. Scott, of Cheney Brothers, silk manufacturers, at a meeting of the National Council of Dyes and Colors, at the offices of the United Waist League of America, 29 E. 32nd st., New York, on May 19. It was decided to submit the recommendations to the various industries for opinions on their practical value. An outline of the tests follows:

## OUTLINE OF TESTS

Degrees of Fastness:

Light (1)—10 days south exposure inside window, or 10 hours to test lamp.

Light (2)—20 days south exposure inside window, or 20 hours to test lamp.

Light (3)—30 days south exposure inside window, or 30 hours to test lamp.

Washing (1)—neutral soap at 90° F. (Commercial Laundry Wash-

Washing (2)—neutral soap at 120° F. ing under Laundryowners'

Washing (3)—laundry soap at 160° F. National Standard Formulae.)

Hot pressing—at 300° F. (temp. of iron)

Perspiration—lactic acid 4° Tw. 1 hr. at 100° F. with white cloth.

Bleaching—hypochlorite, cold, ½° Tw.

Water—cold water 2 hrs. with white cloth.

Weather—exposure to weather 1 week.

Salt water—3% solution of salt, steep 2 hrs. cold.

Rubbing—rubbing colored fabric on white handkerchief.

The tests are numbered and the nature of the ordeal which the various kinds of goods must pass through and still retain their color are designated in the following list, the numbers referring to the test under the corresponding number in the "outline of tests":

## OUTLINE OF FASTNESS REQUIREMENTS

By Material

Ladies' Waist Material:

Silk (non-washable)—rubbing, light (2), hot pressing.

Silk (washable)—rubbing, light (2), washing (1), hot pressing.

Cotton—rubbing, light (2), washing (3), hot pressing.

Ladies' Dress Material:

Silk—hot pressing, art. light, light (1).

Cotton—hot pressing, washing (3), light (1).

Wool—hot pressing, light (2).

Gentlemen's Suiting:

Wool—hot pressing, light (3).

Cotton—hot pressing, light (3), washing (2).

Coat Linings:

Silk—perspiration, hot pressing, rubbing.

Cotton—perspiration, hot pressing, rubbing.

Union—perspiration, hot pressing, rubbing.

Hosiery:

Silk—washing (2), perspiration, rubbing.

Cotton—washing (3), perspiration, rubbing.

Wool—washing (2), perspiration, rubbing.

Fiber Silk—washing (2), perspiration, rubbing.

Hat Bands:

Silk—light (3), water, weather, hot pressing.

Cotton—light (3), water, weather, hot pressing.

Necktie Fabrics:

Silk—light (1), rubbing, hot pressing.

Cotton—light (1), rubbing, washing (2).

Underwear and Sleeping Garments:

Silk—washing (2), perspiration, rubbing.

Cotton—washing (3), perspiration, rubbing.

Wool—washing (2), perspiration, rubbing.

Shirtings:

Silk—washing (2), perspiration, rubbing.

Cotton—washing (3), bleaching (desirable but not necessary),

perspiration, rubbing, hot pressing.

Wool—washing (2), perspiration, rubbing.

Hat Felts:

Fur or wool—light (3), water, weather.

Carpets & Rugs:

Wool—light (2), rubbing, cold water.

Cotton—light (2), rubbing, cold water.

Silk—light (2), rubbing, cold water.

Upholstery & Drapery:  
 Wool—light (2).  
 Cotton—light (2).  
 Silk—light (2).  
 Window Shade Material:  
 Cotton—light (3).  
 Curtain Material:  
 Silk—light (3).  
 Cotton—light (3).  
 Awning Material:  
 Cotton—light (3), weather.  
 Bookbinders Cloth:  
 Cotton—rubbing, hot pressing.  
 Horse Blankets:  
 Wool—perspiration, light (3), washing (3).  
 Fabrics for Rubberizing:  
 Cotton—light (2), vulcanizing, hot pressing.  
 Silk—light (2), vulcanizing, hot pressing.  
 Bathing Suits:  
 Silk—light (3), salt water, washing (2).  
 Cotton—light (3), salt water, washing (2).  
 Wool—light (3), salt water, washing (2).

The members of the National Council of Dyes and Colors present at the meeting were: M. Mosessoehn, United Waist League of America; David N. Mosessoehn, Associated Dress Industries of America; Walter M. Scott, Cheney Brothers; Adolph Mueller, Textile Color Card Association; E. H. Killheffer, Newport Chemical Works; J. Merritt Matthews, "Color Trade Journal"; I. H. Ditchett, "Dry Goods Economist"; Mr. Bolland, "Dry Goods Economist"; Harold K. Wilder, The Laundry Board of Trade; Alexander Williams, "Daily News Record"; H. S. Heitkamp, Claflins Incorporated.

#### INVENTOR OF SOLVAY PROCESS DEAD

Ernest Solvay, inventor of the Solvay process for the manufacture of soda, died at Brussels, Belgium, on May 26, at the age of 84. He was one of Belgium's richest men and was called the Carnegie of Belgium. During the war he took a prominent part in Belgian relief work, and so embittered the Germans that on one occasion he was sentenced to three months' imprisonment for insulting a German officer.

On his seventy-sixth birthday M. Solvay was appointed by King Albert a Grand Officer of the Order of Leopold, and also received the Lavoisier Medal of the Institute of France and the Grand Medal of the University of Paris. He, in turn, presented \$100,000 each to the Universities of Paris and Nancy and divided \$1,000,000 among Belgian educational and charitable institutions and the employees of the Solvay Society of Brussels, his firm.

Ernest Solvay was the son of a salt refiner of modest means. His invention was threatened at the start with commercial failure, and only the perseverance and energy of the inventor brought it through to success. The first patents were taken out in 1861.

The ammonia-soda process of Solvay, which originally presented numerous technical difficulties, is now so perfected that about 95 per cent of the total soda production is by the Solvay process. Ammonia and carbon dioxide are led alternately into a cold concentrated salt solution under pressure, says Dr. A. F. Holleman, professor in the University of Amsterdam, in his work on "Inorganic Chemistry." The acid sodium carbonate separates out as it is not easily soluble in cold concentrated ammonium chloride solution. It is broken up on heating into soda and carbon dioxide, the latter being carried back to be used again. The ammonium chloride solution is distilled with lime, whereby ammonia is recovered.

The H. H. Barton & Son Co., 109 South Third st., Philadelphia, Pa., manufacturer of sandpaper products, will soon take bids for the construction of a two-story plant addition, 40x100 feet. Charles B. Barton is president.

### Books of Trade Interest

**MARKETING METHODS AND POLICIES.** By Paul D. Converse, of the Department of Commerce, University of Pittsburgh. 8 vo., 650 pages. Published by Prentice-Hall, Inc., New York.

The subjects discussed by the author indicate the scope of the volume. They are the meaning and function of market distribution, physical marketing facilities, trade channels, brokers and sales agents, wholesale dealers, sale of goods at auction, organized produce exchanges and the question of speculation, development of retail types and methods, market analysis, and price policies. The question of storage with statistics on the refrigeration space in the United States forms an interesting and instructive chapter for those interested in perishable freight. In January, 1918, the author says, \$500,000 worth of goods were destroyed in New York City alone as the result of freezing.

Four middlemen sometimes handle produce before it reaches the consumer, Mr. Converse says. Books, pamphlets, Government reports, and special articles on each subject discussed are cited in foot notes at the end of each chapter, and for the use of students, the author gives a list of questions covering the chief points. The book is instructive, entertaining and valuable as a reference work. An illuminating chapter is devoted to exchange and speculation in which is discussed the stabilization of prices, and the effect of trading in futures. The volume is one of the most informative business books now on the market.

**THE SCIENCE AND ART OF SELLING.** By James Samuel Knox, A.M., LL.D. 8 vo., 380 pages. Published by Knox Business Book Co., Cleveland, O.

A work on the principles of selling divided into five sections, is given by Knox in this book. The subdivisions in the treatment of the scientific side of the selling game include 1. Fundamental factors in business, covering the psychology of business, problems of distribution, the human element in business, management, etc. 2. Basic principles of salesmanship, including salesmanship analysis, approach of a prospect, arousing interest in desire to buy, suggestion, etc. 3. Retail salesmanship, retail methods of selling generally. 4. Efficient and Inefficient Selling Methods, sales analysis, training, study of customers and goods, illustrations of poor salesmanship. 5. Specialty Salesmanship.

**SOME MICROCHEMICAL TESTS FOR ALKALOIDS.** By Charles H. Stephenson, Scientific Asst., Bureau of Chemistry, U. S. Dept. of Agriculture, Washington, D. C. Also including Chemical Tests of the Alkaloids Used by C. E. Parker, Asst. Chemist, also of the Bureau of Chemistry. 110 pages and numerous plates. Published by J. B. Lippincott Co., Philadelphia and London.

The systematic microscopic definition of sixty-four alkaloids, dating back to the beginning of this work in 1907 by the authors, is included in this book of two Bureau of Chemistry scientists. Satisfactory tests were worked out for forty-eight of the sixty-four alkaloids under observation. A table of microchemical reactions of fifty-one alkaloids with thirty-five different reagents is given in the back of the book. A series of 150 photomicrographic plates given in this work, is an unusual example of microphotography.

Photographic development is the subject of an attractive booklet, entitled "The Right Way in Photography," recently issued by Burroughs Wellcome & Co., London and New York.



QUOTATIONS ON CHEMICAL STOCKS

	Bid	Asked		Bid	Asked
Air Reduction .....	53	53½	H'k Electro .....	55	66
Allied Chem. & D., 71½	72		H'k Electro, pf.....	60	70
*Allied Ch. & D., pf.106½	107		Int. Agricult. ....	11	12
*Am. Ag. Ch. ....	38	39	Int. Agricult., pf. ....	40	41
Am. Ag. Ch. pf. ....	64	65	*Int. Nickel, pf.....	17½	18
Am. Chicle .....	11	11½	*Int. Nickel, pf.....	78	81
Am. Chicle, pf. ....	35	40	*Int. Salt .....	50	60
*Am. Cot. Oil. ....	27	28	K. Solvay .....	33	34
*Am. Cot. Oil, pf. ....	57	58	*Mathieson Alk. ....	73	77
Am. Cyan. ....	15	20	Merk & Co., pf. ....	73	77
*Am. Cyan, pf. ....	35	45	Merrimac .....	77	79
*Am. Druggists S. ....	5½	6	Mulford Co. ....	45	50
Am. Glue .....	40	45	Mutual Co. ....	150	...
Am. Glue, pf. ....	65	70	*National Lead ....	93	94
*Am. Linseed ....	35	35½	*National Lead, pf.110	113	113
*Am. Linseed, pf. ....	55	56	N. J. Zinc .....	144	146
*Am. Malt .....	12	13	Niag. A., pf. ....	96	100
*Am. Zinc .....	19	19½	Parke, Davis & Co. 88	90	90
*Amer. Zinc, pf. ....	46	47	Penn. Salt .....	72½	73
Atlas Powder ....	123	127	People's Gas, Chl. 51½	82	82
Atlas Powd., pf. ....	79½	81½	Procter & Gamble, 124	128	128
British Am. Chem. ....	1		Procter & Gam., pf.102	106	106
By. Prod. Co. ....	65	65	Rollin Ch. ....	80	80
Carborundum ....	135	135½	Rol. Ch., pf. ....	80	80
Carborundum, pf. ....	118½	116	Royal Bak. Po. ....	106	109
Casein Co. ....	80	85	Royal Bak. Po., pf. 94	95	95
Celluloid Co. ....	104½	104	Sherwin-Williams ..	24½	25
Celluloid Co., pf. ....	111	112	Sherwin-W., pf. ....	93	97
Ches. Mfg. ....	195	200	Stand. Ch. ....	80	100
Ches. Mfg., pf. ....	109	112	Swan & Finch ....	30	34
*Corn Products ....	100	100½	*Tenn. C. & Chem. ....	12	12½
*Corn Products, pf.116	118		Tex. Gulf. Sul. ....	42½	43
*Davison Chem. ....	59	60	Union Carbide ....	57½	58
Dow Chem. ....	200		Union Sulphur ....	...	...
Dow Ch., pf. ....	103		*Un. Drug .....	76½	77½
Du Pont .....	112	115	*Un. Drug, 1st pf. ....	45	45½
Du Pont, pf. ....	79	81	*Un. Dyewood ....	31	38
Du Pont Chem. ....	13	13	*Un. Dyewood, pf. ....	94	96
*Freepor. Tex. Sul. 20½	93		Un. Gas, Imp. ....	38	39
Freep. Tex. Sul. pf. 91	93		Un. Gas, Imp., pf. 50	51	51
Grasselli .....	130		*U. S. Gypsum ....	60	60
Grasselli, pf. ....	100	101½	*U. S. Indus. Al. ....	59½	60
Hercules Powder. ....	132	154	*U. S. Indus. Al., pf. 96	97	97
Hercules, Powd., pf. 99	101		*Va. Car. Ch. ....	30	31
Heyden Chem. ....	1	1½	*Va. Car. Ch., pf. ....	69½	70
			*V. Vivaudou ....	12½	13

\*Listed on New York Stock Exchange

RECENT TRADE JUDGMENTS

Among the judgments entered in New York County, during the week, were the following involving drug, chemical and oil interests: City of New York vs. Hospital Remedies Co., Inc., for \$113; O. L. Richard vs. Johnson & Johnson, for \$1,361; S. Cohen vs. Paramount Hospital Supplies, Inc., for \$175; National Surety Co. vs. Ernest Hilbing, trading as the Eagle Drug Co., for \$118.15; Rome Soap Mfg. Co., vs. Crystal Piece Dye Works, Inc., for \$173.37; M. Lowenthal vs. W. F. George Chemicals, Inc., for costs in suit, \$114.07.

The New York Stock Exchange has admitted to the trading list E. I. du Pont de Nemours & Co., \$35,000,000 ten years 7½ per cent gold bonds; \$69,521,200 6 per cent non voting cumulative debenture stock and \$63,378,300 common stock with voting power. The statement from the company shows net assets as of Dec. 31, 1921, of \$204 a share applicable to common stock. This includes good will and the like. Reckoning securities owned at market value instead of cost, these assets would be \$243 per share. The company's surplus at the end of the year was \$66,080,659. Cash in bank March 31, 1922, was \$18,500,000.

Edward L. Bullock, president of the Katzenbach & Bullock Co., Inc., of Trenton, N. J., has filed a voluntary petition in bankruptcy in the Federal court listing liabilities of \$295,473 against assets of only \$4,310. The principal creditors named are the Trenton Banking Co., which has claims of \$74,385; the First National Bank of Trenton, with claims of \$9,500, and the Stauffer Chemical Co. \$4,191.

The Coca Cola Co. has declared the regular quarterly dividend of \$1 a share on its common stock, payable July 1 to holders of record June 15.

EXPORTS SALES TERMS FOR BUENOS AIRES

The American Exporters' Association of Buenos Aires, Argentina, has adopted the following terms of sale, under which future sales contracts will be made by the Buenos Aires branches of American export commission houses, covering exports from the United States to Argentina. The terms of sale were prepared with great care, says Commercial Attache Edward F. Feely, in a report to the Department of Commerce, and are in full as follows:

1. C. i. f. quotations.—In orders placed at a price c. i. f., the price includes the cost of the merchandise placed on board the ship at the point of shipment, the freight, and the marine insurance to the port of destination.

2. Obligations of the shipper.—The obligation of the shipper in respect of delivery ceases as soon as the merchandise has been placed on board the ship. The merchandise then travels for account and risk of the purchaser, and the shipper does not assume any responsibility for its arrival at the port of destination, nor for any damage whatsoever which it may suffer in transit or while being discharged.

3. Bills of lading and insurance certificates.—The clauses of the bills of lading and of the certificates of insurance covering the merchandise, appearing on this order, form a part of the order, and it is hereby expressly agreed that the buyer will accept and recognize the corresponding insurance certificates as valid proof of such insurance.

4. Shipper's responsibility.—The shipper is hereby relieved of all responsibility in all unforeseen cases, or cases of "force majeure," and, in addition to the general meaning of that term, the said shipper is exempt from responsibility in case of strikes, floods, fires, accidents, delays, or other difficulties in the transportation of the goods, whether by land or by sea, as well as in case of any interruption of such services by acts of governments or of other competent authorities, and also for the postponement of the sailing of ships, and for all other causes beyond the control of the shipper.

5. War risk insurance.—In case of war, or when the circumstances demand it, the shipper shall insure the merchandise against the risk of war without the necessity of consulting the buyer, and the cost of such insurance shall be for account of the buyer.

The United Chemical Products Co., of California, with headquarters at Los Angeles, has been dissolved, and Michael Krieger, formerly secretary-treasurer, has taken over the business under the name of the Krieger Color and Chemical Co., with offices at 500 Temple st., Los Angeles.

The Casein Company of America, in its report for 1921, shows a deficit of \$82,175, after allowing for depreciation and other charges. This compares with a deficit of \$76,618 in 1920. The company's net earnings for 1921 were \$73,592 compared with \$103,033 for 1920.

The American Can Co. has declared the regular quarterly dividend of 1¼ per cent on its preferred stock, payable July 1 to holders of record June 15.

New Incorporations

Silicon Products Corp., Wilmington, Del., capital \$1,250,000. Incorporated by the Delaware Registration Trust Co.

Elwood Chemical Co., New York, capital \$5,000. C. E. Smith, G. F. Borowski, F. Michelson. Attorneys, Walter & Woolf, 120 Broadway.

International Filters Corp., Wilmington, Del., capital \$500,000. Incorporated by the Corporation Service Co.

Radium Sulphate Mfg. Co., Wilmington, Del., capital \$100,000. Horace G. Eastburn, Wilmington.

Upper Lubrication, New York, capital \$100,000. Oils. M. Ross, F. Hart, W. J. McGirr. Attorney, W. H. Brady, 280 Broadway.

Masakke Salts, Dover, Del., capital \$700,000. Incorporated by the Capital Trust Co. of Delaware.

Industrial Waste Products Corp., Dover, Del., capital \$400,000. Walter H. Dickerson, East Orange, N. J.; Edward J. Koehler, New York; Harry S. Lange, Spring Lake, N. J. Incorporated by the U. S. Corporation Co.

United Chemical Products Co., Dover, Del., capital \$250,000. John P. Cann, M. N. Tyson, Henry McKeown, Wilmington, Del., Incorporated by the Delaware Registration and Incorporators Co. Gill Chemical Co., 439 Riverside ave., Newark, N. J., capital \$100,000.

Certified Laboratories, Inc., 776 Broad st., Newark, N. J., capital \$100,000. To manufacture chemicals.

M. Demattia, New York, capital \$12,000. Chemicals. F. Lowenfels, M. Lehman, M. E. Schere. Attorneys, House, Grossman & Vorhaus, 115 Broadway.

## The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, Pages 1268-1269

### MAKERS REDUCE LEAD ACETATE

Potash Alum and Ammonium Carbonate Offered at Concessions—Prussiates of Soda and Potash, Barium Salts and Alkali, and Oxalic Acid Very Firm

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No Advances  
Declined

Alum Potash, Imp.,  $\frac{1}{2}$ c lb.      Ammonium Carbonate,  $\frac{1}{2}$ c lb.  
Lead Acetate,  $\frac{1}{2}$ c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year
Acetic Acid, Glacial .....lb.	\$ .08 $\frac{1}{2}$	\$ .08 $\frac{1}{2}$	\$ .08 $\frac{1}{2}$	\$ .11
Sulfuric Acid, 66 deg. ....ton	14.00	14.00	14.00	18.00
Bleaching Powder, Works. 100 lbs.	1.60	1.60	1.60	2.40
Copper Sulfate .....100 lbs.	5.95	5.95	5.50	5.25
Potash, Caustic .....lb.	.05 $\frac{1}{4}$	.06	.06	.05 $\frac{1}{2}$
Saltpetre, gran. ....lb.	.07 $\frac{3}{4}$	.07 $\frac{3}{4}$	.07 $\frac{3}{4}$	.09 $\frac{1}{2}$
Soda Ash, 38 p.c. ....100 lbs.	1.80	1.80	1.80	2.25
Caustic Soda, 76 p.c. ....100 lbs.	3.85	3.85	3.65	3.85
Potassium Bichromate .....lb.	.10	.10	.10	.12
Average .....	3.046	3.046	3.056	3.571

Trading in heavy chemicals was limited by the fact that both Monday and Tuesday were observed as holidays by the trade. Prices generally continue firmer and consuming interest is showing a gradual increase. Importers are inclined to advance their prices to cover advances abroad but in the cases of potash alum and ammonium carbonate tired holders are offering cheaper. Makers have reduced lead acetate. Prussiates continue firm, as do barium salts and alkali. Makers are holding oxalic acid very firm.

**Acid, Acetic**—Shading of prices on glacial continues and better than 8c can be done with makers on sizeable orders. The lower strengths remain inactive on a basis of \$2.25@2.37 $\frac{1}{2}$  for 28% in carlots of barrels as to brand.

**Acid, Mixed**—Routine business. Prices holding well in spite of weakness in sodium nitrate. Nitric at 7 $\frac{1}{2}$ c @8c per unit as to brand in tanks at makers' works and sulfuric at 1c.

**Acid, Muriatic**—Better movement reported but prices still vary between makers. Quoted at \$1.10@1.50 per hundred for 20° acid in carlots of carboys f. o. b. works. Other strengths at proportionate figures.

**Acid, Nitric**—Routine business with prices tending to soften on weakness in sodium nitrate. Price basis now is \$5.00@5.65 per hundred for 38° in carlots of carboys at works, as to brand.

**Acid, Oxalic**—Makers are holding firm at the recent advance although they report business below expectations. Works prices are 14c and spot 14 $\frac{3}{4}$ c.

**Acid, Sulfuric**—Makers hold firm on a fair volume of business. Prices are \$9@11 on 60° and \$14@16 on 66° in tank cars at works.

**Alums**—Ammonia holds firm on a makers' basis of 3 $\frac{3}{4}$ c in carlots of barrels. Potash lump from makers at 4 $\frac{1}{4}$ c in carlots of barrels against a lower price of 3c@3 $\frac{1}{4}$ c from importers. Both ammonia and potash chrome at 6 $\frac{1}{2}$ c@7c as to quantity.

**Ammonium Carbonate**—Named easier at 6 $\frac{1}{2}$ c@7c in casks.

**Ammonium Chloride**—Makers name 7 $\frac{1}{4}$ c@8c on gray and 7 $\frac{3}{4}$ c@8 $\frac{1}{4}$ c on white granulated. Imported gray firm at 8c@8 $\frac{1}{4}$ c and white easy at 6 $\frac{1}{2}$ c@6 $\frac{3}{4}$ c from distressed sellers.

**Ammonium Sulfate**—Weakness indicated at \$2.90@ \$3.00 at works in bulk and single bags.

**Arsenic**—Prices firm at 7 $\frac{1}{4}$ c@7 $\frac{1}{2}$ c as to quantity on light supply.

**Barium Chloride**—Importers name \$100 per ton on fair stocks. Makers quote \$100 but can offer nothing prompt. Contracts are offered below this figure to begin with July deliveries.

**Barium Carbonate**—Sluggish but firm. Domestic at \$75@85 against \$65@70 named by importers.

**Bleaching Powder**—Apparently firmer. Contracts have gone begging during the week at bids of \$1.50 works. Nothing was found from makers below \$1.60 basis carlots contract works. It might be possible to do \$1.60 for prompt cars as well but generally up to \$1.75 is named. Only scattered lots of off-grade imported around.

**Copper Sulfate**—Held very firm by makers on firmness in copper. Named at 6c delivery in carlots of barrels nearby.

**Copperas**—Offerings are more plentiful. Prices hold at \$17 per ton bulk works.

**Lead Acetate**—Makers have reduced their prices and are now quoting on a basis of 10 $\frac{1}{2}$ c@11c for white crystals in barrels as to quantity.

**Potash, Caustic**—Offered at 5 $\frac{1}{4}$ c spot on a slightly easier basis. Demand is scattered.

**Potassium Carbonate**—Prices firm at recent levels. Calcined 80-85% at 4 $\frac{3}{4}$ c@5c and hydrated at 6c@6 $\frac{1}{2}$ c.

**Potash Prussiate**—Red offered firm from small stocks at 85c spot. Yellow active and very firm at 31c@32c as to seller and position. Tendency is higher.

**Soda Ash**—Business in good volume is being done at \$1.20 basis 48% carlots bags at works on contract. Spot bags at \$1.80@2.10 flat as to quantity.

**Soda, Caustic**—Export demand continues active. Nothing better than \$3.85@3.90 flat spot. Contract basis 60% carlots works at \$2.50.

**Soda Prussiate**—Very firm on speculative interest and higher prices abroad. Stocks limited on spot at 23 $\frac{1}{2}$ c@24 $\frac{1}{2}$ c as to seller. Some sales reported as high as 25c.

#### Metals

Metals generally firmer. Copper at 13 $\frac{1}{2}$ c@14c for lake and electrolytic, and 13c for casting. Lead here higher at \$5.65@5.70. Silver easier at 71 $\frac{1}{2}$ c per ounce. Tin tending to ease off at 31 $\frac{1}{2}$ c for Straits, 30 $\frac{1}{2}$ c for standard and 30 $\frac{1}{2}$ c for 99%. Zinc firmer at \$5.50@ \$5.55.

The American Manganese Co., Batesville, Ark., has preliminary plans under way for the construction of new mills for considerably increased production. The company will develop its properties in the Batesville-Cushman district. A bond issue of \$250,000 is being sold. Norman E. Brockaw is president.



## Heavy Chemical Notes

Imported ammonium chloride is weaker on heavy arrivals last week.

Foreign markets continue firmer as demand from all consuming markets increases.

The Rollin Chemical Co., Charleston, W. Va., expect to open their barium chloride plant in the near future.

Sodium nitrate is easier for shipment with little demand for prompt. Arrivals last week amounted to some 90,000 bags.

The United States Potash Producers' Association presents in its bulletin a map of the United States shaded to show the consumption of fertilizers per acre in each of the states.

Prussiates continue market leaders. Imports of 125 casks of yellow prussiate of soda and 40 casks, 8 barrels and 1 case of prussiates of potash were recorded at the port of New York last week.

The worst of the slump in bleach seems to have passed and prices are firmer in all directions. Except for off-grade imported stuff nothing could be had in the market below the quoted figure of \$1.60 works on contract.

The Western Materials Co., Valley, Wash., operating magnesite properties, has plans in preparation for the construction of a new plant at Hillyard, Wash., for the manufacture of magnesite cement. The plant is estimated to cost about \$35,000. Negotiations are under way for a site.

The balance sheet of the Davison Sulphur & Phosphate Co. for 1921 showed a ratio of current assets to quick liabilities of approximately 1 1/4 to 1. Current assets totaled \$3,305,851 and current liabilities \$1,948,035. Receivables and cash were about \$200,000 more than payable. Inventories stood at \$1,101,535.

The New York Stock Exchange has received notice from the Virginia-Carolina Chemical Co. of a proposed change in the common stock from 380,000 shares of \$100 par value to 380,000 shares of no par value voting stock and 95,000 shares of Class B common stock also with no par value. It is also proposed to increase the authorized voting common stock to 905,000 shares.

Damage done in the plant of the Nichols Copper Co., Laurel Hill, Long Island, by the explosion of one of the anode furnaces on May 27 was trifling according to the statement of the New York office of the company. Press dispatches placed the damage as high as \$1,000,000 but apparently it will amount to only a few thousand at the outside. No curtailment of plant operations will be necessary.

A plan for development of the Government's nitrate and power projects at Muscle Shoals, Ala., has been prepared by the House Military Committee. In many respects it conforms to that submitted by Henry Ford, but contains certain modifications of the Ford proposals which, in the opinion of some members, makes the scheme the work of the committee. One important alteration of the Ford offer eliminates the steam power plant at Gorgas, Ala., from the group. Another committee amendment would compel the purchaser or lessee to manufacture fertilizers and sell them to the public throughout the period of the contract, whether for fifty or 100 years. The minimum production would be calculated on 40,000 tons of ammonium nitrates annually, estimated to be equivalent to 2,000,000 tons of finished fertilizers annually.

## VERDICT FOR TRONA CORPORATION

(Special to DRUG & CHEMICAL MARKETS)

Baltimore, May 31.—Under instructions from Judge Stanton, in the Superior Court here, the jury in the case of the Hubbard Fertilizer Co. against the American Trona Corp., of California, asking \$275,000 damages, returned a verdict for the Trona company. The case will be appealed to the Maryland Court of Appeals. The Trona company contended that there was nothing in the contract stipulating that the potash was not to contain over 10 per cent of borax. The Hubbard company, which had sued on the ground that the excess of borax in the potash acted as a caustic and burned up the roots of the potato plants in the fields of Maine farmers who had used the mixture, paying out not less than \$323,000 in indemnities and having to sell its factory there besides at a loss, urged that there was available a lot of correspondence giving assurances of the harmlessness of the potash, and that these assurances led up to the contract, which would not have been entered into otherwise. The Trona company maintained that the contract governed the whole matter, while the Hubbard company contended that the correspondence must be considered as of vital bearing. In the fact of this difficulty Judge Stanton virtually decided to pass up the controversy to the higher court.

## DAVISON CHEMICAL CO. ATTACHES CARS

(Special to DRUG & CHEMICAL MARKETS)

Toledo, O., May 31.—The Davison Chemical Co. has secured an attachment on six cars valued at \$96,000 manufactured by the Cincinnati Car Co. and paid for in full by the Cienfuegos Railway Co. Collection of the remainder of the claim is regarded as doubtful for the present. Although the electric railway line is valuable it is said to be heavily mortgaged.

The suit was brought by the Davison Co. for \$2,500,000, and a verdict was obtained for \$850,000, for damages claimed on account of the failure of the railway company to build a line from the interior of Cuba to the coast as agreed.

## JAPAN'S CAUSTIC SODA OUTPUT

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokyo, Japan, May 1.—According to investigations made by the soda and bleaching powder companies of Japan, the output of caustic soda during March amounted to 3,255,678 pounds, an increase of 423,226 pounds as compared with the preceding month, the total amount since January of this year being 9,105,501 pounds. Bleaching powder productions during March was 4,514,990 pounds, and the total since January, 13,461,610 pounds.

The summer meeting of the American Institute of Chemical Engineers will be held at Niagara Falls, N. Y., June 19 to 22. Headquarters will be at the Clifton Hotel. A symposium on acid manufacture is being arranged. This will include the manufacture and concentration of sulfuric, nitric and hydrochloric acids, as well as phosphoric acid. One day will be spent in Buffalo visiting the industries in that locality. Another day will be devoted to a lake trip to Toronto, Canada, and inspection of the chemical plants in that vicinity.

Mark J. Trazivuk, a New York importer, who has just returned from Chile, says: "The Muscle Shoals nitrate plant is liable to experience some serious trouble in connection with prices once the products are being put on the market. Present prices in Chile could be reduced to one-half and still the profits would be satisfactory to the producers."

## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, Pages 1254-1256

### RESTRICTED DEMAND IN HOLIDAY MARKET

Changes Few and Far Between—Broad Firm Trend to Prices Generally—Tartaric Acid Stronger—Sharp Rise in Adeps Lanae—Menthol and Camphor Under Pressure

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

##### Trend of the Market Advanced

Acid Tartaric, Imp., ½c lb. Adeps Lanae, Hyd., 8c lb.  
Antimony, Ndl. Cryst., ¼c lb. Anhydrous, 6c lb.  
Soap, Green, U.S.P., ½c lb.

##### Declined

Camphor, Jap., ref., 1c lb.

	Today	Last Week	Last Month	Last Year
Acetanilid .....	\$.30	\$.31	\$.31	\$.30
Acid, Citric, Import .....	.44½	.44½	.45	.45
Caffeine, Alkaloid .....	3.75	3.75	3.75	5.90
Calomel, American .....	.94	.94	.88	.83
Camphor, Jap., ref. ....	.75	.76	.79	.71
Iodine, Resublimed .....	4.20	4.20	4.05	3.75
Menthol .....	5.50	5.50	5.75	3.80
Morphine Sulfate .....	4.80	4.80	4.80	5.20
Potassium Bromide, Cryst. ....	.23	.23	.23	.24
Quinine Sulfate, Import .....	.60	.60	.60	.65
Sodium Salicylate .....	.32	.32	.32	.30
Strychnine Sulfate .....	.76	.76	.76	1.35
Average .....	1.86	1.86	1.87	2.01

One of the quietest weeks since the first of the year has passed since the last report. A large part of the New York chemical and drug trades closed down Saturday noon and did not reopen until Wednesday morning. Buying receded to very small proportions owing to the influence of the holiday. Changes from manufacturers or other sources were few and far between, and also of a minor nature. Camphor and menthol continue under pressure, although whether prices will recede any further is a question. Adeps lanae has been moved up sharply. Sugar of milk is firm at the recent advance. Cod liver oil tends easier owing to a softer market abroad. Citric acid is strongly held on spot. Tartaric acid is firmer on heavy buying.

**Acetanilid**—Unchanged and quiet at 30c@32c lb. spot U.S.P. goods in barrels.

**Acetphenetidin**—In steady demand and firmly maintained at \$1.85 lb. by manufacturer.

**Acid Citric**—Spot goods selling freely at 44½c@45c lb. casks and kegs imported. Spot holdings indicated as heavy, but closely held by strong hands. Makers taking business at 45c crystals in bbls. Tendency of demand from some quarters to expand.

**Acid Tartaric**—Recent heavy buying by consuming interests and the high cost of replacement abroad have brought a bullish influence to bear on the spot market. Spot stocks are reported to have been reduced considerably while import cost is equal to 30c laid down. Spot goods are firmer at 27½c@28c for crystals, and 28c for powder. American makers at 30c schedule unchanged.

**Adeps Lanae**—Prices have been moved up sharply owing to reduction in surplus stocks which have been depressing the market for some time past. New levels name 20c@21c lb. for hydrous in barrels, and 22c@23c lb. for the anhydrous.

**Alcohol**—Reports indicate that operations of both grain and wood alcohol distillers have been materially curtailed owing to the low prices which have been prevailing for some time past. Present market levels are said to be under cost of production.

**Amidopyrine**—Named easier on spot at \$4.00 up to \$4.50 lb. as to seller and quantity.

**Antimony**—Needle powder is firmer on spot and now held at 4¼c lb. for spot casks.

**Antipyrine**—Quiet and unchanged on spot \$2.10 lb. up to \$2.25 as named by leading importers.

**Bromides**—Potassium and sodium imported at 15c unchanged. Special goods in tin lined cases spot up to 18c. Ammonium bromide imported 16c@18c. Traders here agree that the entire future of bromide prices hinges almost solely on the tariff. American makers 20c sodium, 23c potash, 29c ammonium.

**Camphor**—Spot Japanese slabs in cases continue under pressure on spot owing to lack of demand and heavy stocks. Prices are slightly softer at 75c lb. Tablets 93c@95c in cartons, 95c in tins. Shipment at about 72c c. i. f. American refiners name 90c lb. basis bulk in bbls. unchanged.

**Cod Liver Oil**—Owing to softer position abroad as a result of big stocks, the spot market is slightly easier. Demand here has quieted down to small proportions. Prices are unchanged at \$22.00 up to \$25.00 bbl. as to brand. Bergen, Norway, names \$23.00 c. i. f. N. Y., and 100s c. i. f. London for shipment.

**Cream Tartar**—Spot stocks are large. Moving in routine quantities imported at 23c@24c lb. in casks and kegs. Domestic 26½c.

**Glycerin**—Unchanged and quiet at 14½c@15c lb. C. P. in drums from refiners. Cans 15½c@16c; outside hands 14¾c lb.

**Iodides**—Potash iodide from makers \$3.30 lb. basis 50 lb. lots. Firm. One or two resale lots on spot at \$3.15 lb. Iodine tincture 50 gal. bbls. \$3.95 gal.

**Menthol**—Still appears weak on spot. Outwardly price is unchanged although ten case lots are reported to be able to get a \$5.40 figure from one quarter. Named \$5.50 cases, \$5.65 less cases spot. Shipment still \$4.75 c. i. f. unchanged.

**Mercury**—To all appearances, quicksilver is well held and firm at \$55.00 flask spot, \$56.00 for jobbing lots. Small buying was said to be better in some quarters. Imports last week included 506 flasks from London.

**Quinine**—Imported Dutch and Java quinine is available spot at 60c oz. No Japanese is offering. American sulfate at 60c 100 oz. tins unchanged.

**Soap**—A holder of Conti's castile has jacked prices up to \$9.00 a case this week. Green soap, U.S.P., firmer spot at 8c@8½c lb. bbls. and kegs.

Senator McNary of Oregon, has introduced a resolution in the United States Senate requesting that President Harding call another conference of the powers which ratified the international opium agreement of 1912 to consider further means of suppressing international traffic in narcotics.

## Medicinal Chemical Notes

Total of cocoa butter imports at New York last week amounted to 1,702 bales and bags.

An interesting import a week or so ago was seven cases of saccharin from Rotterdam.

The American representative of the Dutch quinine interests brought in 65 cases of quinine last week from Rotterdam.

The Argol Sulphite Co., Baltimore, Md., has plans nearing completion for a one-story plant building, 40 x 100 feet, at Curtis ave. and Beach st.

The Novo Laboratories, Inc., 651 Catherine st., Perth Amboy, N. J., manufacturer of chemicals, will begin the immediate construction of a one-story plant addition for grinding and mixing, estimated to cost about \$25,000.

The Wilmington Sugar Refining Co. Wilmington, Del., has awarded additional contracts for the construction of a melting and washing building, and power plant, at its refinery, now in the course of erection.

A truck loaded with fourteen barrels of grain alcohol was stolen from the warehouse of John C. Lee, 24 Moore st., New York, last week, by three armed men, who first tied Lee and a clerk to chairs. The alcohol was valued at \$15,000 retail.

H. Meyer & Co., Christiania, Norway, made the following report to F. W. Mead & Co., their American representatives, regarding cod liver oil figures for all of Norway: Catch of fish, 1922, 37,000,000; 1921, 34,400,000; 1920, 31,800,000. Yield of oil, 1922, 64,081; 1921, 52,256, 1920, 48,139 hectolitres.

Walter S. Goff, manager of the New York office of the Monsanto Chemical Works, has been visiting the main office of the company in St. Louis since May 20th. He will return to New York June 3rd. In his absence, C. A. Zacher, assistant general sales manager for Monsanto has been in charge of the New York branch.

More than \$500,000 worth of liquor was seized May 27 by Federal Prohibition agents in Newark in the largest single raid in New Jersey and one of the largest in this district since the enforcement of prohibition began. After the formal confiscation of the contraband goods, it was announced that the liquor had been found in the warehouse of the New Jersey Wholesale Drug Company, 55 to 56 Arlington street, Newark. The liquor included 8,000 cases of whiskey, 1,000 cases of assorted liquors and 600 barrels of alcohol, whiskey, brandy and rum.

The President has signed the Miller bill, which forbids the importation of any narcotic drugs outside of crude opium and coca leaves, and further places in the hands of a "narcotics board", composed of a representative of the State, Commerce, and Treasury Departments, the power to permit to be imported for medicinal purposes such quantities of opium and coca leaves as may be necessary for legitimate purposes. Aliens convicted of violating the act are to be deported, while citizens shall be fined \$5,000 or be given ten years imprisonment.

## ALCOHOL PERMITS MISSING

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., May 31.—The Prohibition Commissioner has issued an emergency order to Prohibition Directors warning them of the loss or theft of recently issued permits to purchase alcohol known as form 1410-A Nos. 178,001 to 184,000; and that Nos. 396,001 to 400,000 will not be issued because confirmation sheets for those numbers are also unaccounted for. The notice reads:

"Persons holding permits authorizing the sale of intoxicating liquor are not permitted to make sale or delivery of the intoxicating liquor on a permit to purchase bearing a serial number from 178,001 to 184,000, inclusive, or from 396,001 to 400,000, inclusive. Any sale or delivery of liquor on a form bearing any of such numbers will be deemed as having been made without any Permit to Purchase whatever and in violation of the National Prohibition Act. Upon any Permit to Purchase bearing one of these serial numbers being presented to a permittee, such permittee should immediately advise this office by wire of the fact in order that steps may be taken to apprehend the person presenting the same.

"Permittees are also directed not to honor any Form 1410-A on which the serial number appears to have been altered, and they should carefully scrutinize each permit to purchase presented to them with a view to determining its genuineness. Where any permit to purchase, the serial number of which appears to have been altered, is presented to a permittee, such permittee should also immediately notify this office by wire."

## CANADA CUTS ALCOHOL TARIFF

(Special to DRUG & CHEMICAL MARKETS)

Toronto, Canada, May 31.—Some changes affecting the drug and chemical trade were announced by Hon. W. S. Fielding, Minister of Finance, in his Budget speech. The alterations in the tariff were comparatively few, a noteworthy feature being an increase in the British preference on sugar and cocoa.

The duty on alcohol imported by druggists, which was \$9 per gallon, is reduced to \$2.40 the same rate as paid by manufacturers. The duty on some non-alcoholic liquid medicines is reduced 20 per cent under the general tariff and 35 per cent under the preferential tariff. Confectionery is subjected to an increased duty of 5 per cent and mineral water and soft drinks 10 cents additional per gallon.

The sales tax on imported goods is increased from 4 to 6 per cent. The Finance Minister stated that some of the provisions of the Customs Act, which had been found unworkable or had been strongly opposed by importers, would be repealed. These include the clauses requiring goods to be marked with the country of origin; that customs valuation should be based on cost of production plus reasonable profit; that only 50 per cent should be allowed for depreciation of foreign currencies in valuing imports, and that invoices must be certificated by Canadian commercial agents in the country of export.

Dr. C. H. Searle, president of the American Pharmaceutical Manufacturers' Association, announces that an interesting program has been completed for the annual meeting, to be held at Bedford Springs, Pennsylvania, June 12 to 15. In addition to the business sessions, golf and tennis tournaments have been arranged, with a side trip to the Gettysburg battlefield. Reservations for hotel accommodations may be made through Ralph R. Patch, secretary-treasurer of The E. L. Patch Co., Boston.

## The Intermediate and Dye Market

Current Spot Quotations of Intermediates and Dyes, Pages 1263-1264

### DYE DEMAND IS ON NARROW LINES

Only Scattered Business Done During the Week—Aniline Oil and Beta-Naphthol Prices Still Being Shaded by Producers—Coal-Tar Crudes Firm, Owing to Continued Scarcity

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No advances  
Declined  
b-Naphthol, 1c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year
Benzene, C. P. .... gal.	\$.29	\$.29	\$.29	\$.27
Naphthalene, flake .... lb.	.07	.07	.07	.08
Phenol .... lb.	.12	.12	.12	.09
Xylene, 10 degrees .... gal.	.35	.35	.35	.45
Toluene, pure .... gal.	.30	.30	.30	.28
Aniline Oil .... lb.	.14	.14	.15 1/4	.20
Benzaldehyde .... lb.	.65	.65	.65	.45
Betanaphthol, dist. .... lb.	.23	.25	.28	.34
Paranitroaniline .... lb.	.75	.75	.76	.80
o-Toluidine .... lb.	.16	.16	.16	.25
Average .....	0.305	0.307	0.302	0.319

Scattered business only was noted in the dye and intermediate markets last week. Selling pressure in aniline and beta-naphthol continues to interfere with trading in these items. Demand has continued along narrow lines with consumers meeting only limited requirements. Makers generally are contenting themselves with the business offered and believe that price cutting is futile in the present state of the market. Prices have remained at virtually the former levels on this account. Coal tar crudes continue scarce.

#### Coal Tar Crudes

**Benzene**—Little trading on 'limited supplies. Demand for C.P. is scattered, refiners hold prices at 29c @34c in tanks and drums but are not able to offer freely at these figures.

**Carbazol**—Makers quote 75c@90c as to quantity and packing on routine business.

**Naphthalene**—Flake plentiful at 6 1/2c@6 3/4c in some directions against a refiners' price of 7c@8c as to quantity in carlots and less. Balls firm from refiners at 8c@9c. Demand limited.

**Phenol**—Prime white U.S.P. continues tight at 14c @15c as to seller. Government surplus unchanged at 12c@17c as to quantity and packing. Natural from refiners firm at 15c@16c.

**Solvent Naphtha**—Moving fairly well at 25c@30c in tanks and drums from refiners. Stocks very low.

**Toluene**—Very firm from refiners at 30c@35c in tanks and drums. Consuming demand routine.

**Xylene**—Unchanged. Refiners quote firm at 45c@50c for 2° stuff in tanks and drums.

#### Intermediates

**Acid, Anthranilic**—Makers quote firm at \$1.10@\$1.15 for technical as to quantity in drums. Fair demand.

**Acid, Benzoic**—U.S.P. in good demand at 55c@75c

as to brand. Technical sluggish at 45c@50c with some makers asking up to 60c.

**Acid, Gamma**—Prices firmer. Movement limited at \$1.80@\$2.00 as to brand and quantity. One maker still holds out of the market at this level.

**Acid, H**—Nothing better than 85c@90c could be had.

**Acid, Monosulfonic F**—Routine movement at firm prices from makers. Quoted at \$2.30@\$2.35 as to quantity.

**Acid, Neville & Winther's**—Makers hold for \$1.25@ \$1.30 as to quantity. Consumers show no interest beyond immediate requirements.

**Acid, Salicylic**—Technical in slow demand at 20c@ 22c. Resellers of U.S.P. offer at 24c.

**Acetanilid**—Technical easy at 25c@27c against 30c asked as best for U.S.P.

**Alpha-naphthylamine**—Very firm at 30c@32c in spite of lack of demand.

**Aniline Oil**—Further rumors of price cutting but little definite information as to definite sales. Quotations of 14c@15c are as close to the market as it is possible to get at present. The general belief is that cuts below these levels, which are certainly being made, represent losses below the actual cost of the oil at the works.

**Aniline Salt**—Soft at 22c@23c as to seller.

**Anthraquinone**—Easy on routine demand. Nothing below \$1.35 from makers on sublimed and up to \$1.60 is quoted as to brand. Paste is sluggish at 75c@80c for 30% stuff.

**Benzidine**—Base steady at 85c@90c as to quantity. Sulfate very slow at 70c@75c.

**Beta-naphthol**—One maker is said to have intimated to consumers that he will meet any price made in competition. Openly quoted figures as low as 23c for lots of several tons are named. Others quote 25c on a basis of single ton lots. Rumors of sales down to 21c are heard but lack definite confirmation.

**Dimethylaniline**—Makers quote firm at 36c@38c as to quantity in drums. Demand is slow.

**Dinitrobenzene**—Makers are holding firm at 20c@ 22c for ordinary and 22c@24c for specially purified. Demand is slow routine.

**Meta-nitroaniline**—Offered at 72c@75c as to quantity by makers. Prices tend to softness on lack of demand.

**Meta-phenylenediamine**—Some odd lot stuff around that can be had below the makers' level of \$1.00@ \$1.05.

**Para-nitroaniline**—No new developments. Makers quote firm at 75c@79c in tons and single barrels as to brand. Fair demand.

#### Starches and Dextrins

Demand better on firm market. Tapioca flour advanced to 5c@5 1/4c for high grade and 3c@3 1/2c for low grade. Corn dextrin steady at \$2.99@\$3.27 per hundred. Starch at \$2.32@\$2.60 for powdered in bags as to quantity.



## Dyestuff Notes

One of the leading makers of anthraquinone reports active demand for this product.

Dwan J. Eastman, of the National Dye Works, Brooklyn, New York, was a business visitor at San Francisco the third week in May.

The National Rosin Oil & Size Co., 155 North Clark street, Chicago, Ill., has filed notice of increase in capital from \$50,000 to \$100,000.

The coal strike is beginning to make itself felt in the coke industry and may affect industry generally unless some agreement is reached soon.

The United Dyewood Corporation has declared the regular quarterly dividend of 1½% on the common stock, payable July 1 to holders of record June 15.

Among the imports at the port of New York last week were included 1,149 bags of naphthalene and 12 casks of carbazol, the former coming from Hamburg and the latter from Liverpool.

Beta-naphthol and aniline are no firmer than last week as some makers of each are out to get business at whatever price offered. Certainly this condition cannot continue long as it is well established that present prices are below production costs.

British papers announce that Dr. Carl von Weinberg, a principal in the German dye trust, has purchased 51 per cent of the shares of the Italian Bianchi dye firm. The Germans will give the Italian firm technical and other assistance necessary to develop the business on a scale justified by Italian economic conditions. The Germans are to receive 51 per cent of the profits.

Delay in effecting a compromise in the textile strike in New England continues to hamper the dye trade. The feeling continues among disinterested observers that the workers have reached a point where they would be willing to return to work at the proposed wage scale if permitted to do so. The mill owners seem inclined to hold off, however, until they have accumulated sufficient business to assure them continuous operation.

### HANDLING CHEMICALS NOT UNHEALTHFUL

With the rapid growth of industry in California occupational diseases are becoming of greater importance and health officers are being requested to co-operate with all agencies in order that deaths from such causes may be reduced to a minimum. Attention is being directed to the fact that while the popular impression is that the handling of chemicals is unhealthful and results in many occupational diseases, the reverse is true, more troubles being caused by the handling of food products than by the handling of chemicals. Of a total of five deaths in this State in 1919 and 1920 from occupational diseases, there were but two in which chemicals played a part, one resulting from lead poisoning and the other from carbon monoxide.

Temporary injuries in these years are listed by the Board of Health, with contributing causes, as follows: Aniline dyes 8, antimony 1, arsenic 3, carbon monoxide 2, chloride of lime 1, chlorine 2, formaldehyde 1, gassing 55, hydrochloric acid 2, hydrofluoric acid 1, lead 69, mercury 8, nitrous gases 4, petroleum 6, sulphuretted hydrogen 2, sulfuric acid 2, wood alcohol 4, copper sulfate 4, nickel 1, potash 3, acid poisoning not otherwise specified 7. Fruit and vegetable poisoning during these years numbered 380 cases, while fish poisoning numbered 34 cases.

### TANNING EXTRACTS TRADE INCREASES

Imports of quebracho for February, 1922, exceeded the imports for January, 1922, by nearly 2,000,000 pounds. On the other hand, there was a heavy decline in the imports of all other extracts, and gambier in particular. Imports of mangrove bark and quebracho wood increased very heavily in February, 1922, as compared with January, 1922. Comparative figures compiled by the Hide and Leather Division of the Department of Commerce are as follows:

Extracts for Tanning	January	February
Quebracho, pound .....	4,034,441	5,954,389
All other, pound .....	995,622	801,011
Gambier, or terra japonica, pound .....	1,150,238	564,169
Tanning Materials Crude:		
Mangrove bark ton .....	50	90
Quebracho wood, ton .....	4,968	7,170
All other .....	....	....
Total .....	5,018	7,260

Exports of bark and other tanning materials, crude, for February, 1922, showed a very heavy increase over the exports for January, 1922. Chestnut and other tanning extract exports showed a very considerable increase over the same period. On the other hand, quebracho exports registered a heavy decline for the same period. Comparative export figures are:

Bark and other tanning materials crude, tons .....	85	11,226
Tanning Extracts.		
Chestnut, lb. ....	620,686	800,983
Quebracho, lb. ....	240,657	47,813
Other tanning extracts, lb. ....	1,304,438	1,797,292

Total tanning extracts lb. ...2,165,781 2,646,088

### METZ WOULD AID DYE CONSUMERS

Herman A. Metz, of H. A. Metz & Co., speaking before the Eastern Division of the Knitted Outerwear Association at the Hotel McAlpin last week, stated that, although he believes that the American dye industry should be protected, he did not believe that it should be protected at the expense of the dye consumer.

"The difficulty is not that the colors cannot be made in this country," Col. Metz said, "it is not that we cannot make dyes—The American manufacturer has the ability to turn out as good a product as any in the world. It is true that 75 per cent of the colors used in this country today are manufactured here, but the problem is not one of color, but of shades.

"The three primary colors are all that is required to make any combination needed, but if a shade is built up with four or five colors and one of them is fugitive, that shade will not stand up and there is a dissatisfied customer."

### MARCH IMPORTS OF DYES AND EXTRACTS

(Special to Drug & Chemical Markets)

Washington, D. C., May 31.—Imports of dyes during March included 27,356 pounds of alizarin colors, valued at \$54,235; other dyes 301,214 pounds, valued at \$378,863; synthetic indigo from Switzerland, 16,726 pounds, valued at \$38,345; dye extracts 91,738 pounds, valued at \$5,408, principally from India, Haiti, and England. The alizarin and other dyes came from the following countries:

Countries	Alizarin & alizarin dyes		N. E. S. Colors or dyes	
	Pounds	Dollars	Pounds	Dollars
Belgium .....	....	....	32	124
France .....	511	231	9	37
Germany .....	19,259	42,679	118,812	128,596
Italy .....	2,738	2,141	6,190	6,881
Netherlands .....	3,180	4,345	3,720	4,293
Switzerland .....	....	....	142,338	213,000
England .....	1,648	4,839	30,029	25,757



## The Oil Market

Current Spot Quotations of Oils, Tallows, Greases, 1266, Naval Stores 1267

### CRUSHERS SEEK BIDS FOR LINSEED

Degras is Lower and Cottonseed Oil is Soft—Fish Oils Holding Well—China Wood, Perilla and Soya Bean Oils Fairly Firm—Turpentine Higher

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

	Advanced
Turpentine, 2c gal.	
	Declined
Degras, 3/4c lb.	
	Linseed, 2c gal.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year
Cod Oil, N. F.	\$.60	\$.60	\$.58	\$.44
Degras, American, bbls.	.04	.04	.04 1/4	.05
Lard, No. 1	.80	.80	.80	.65
Menhaden, crd. bbls.	.35	.35	.42	.30
Neatsfoot, 20 deg. ct., gal.	1.80	1.80	1.80	1.00
Red Oil, distilled	.08 3/4	.08 3/4	.08 3/4	.06 3/4
Stearic Acid, T. P.	.10	.10	.10	.10 1/4
Coconut, Ceylon, Dom., bbls.	.08 3/4	.08 3/4	.08 3/4	.10
Cottonseed crude, tanks	.10	.10	.10	.05 1/4
Linseed, Carlots, bbls.	.88	.90	.88	.74
Olive, denatured	1.12	1.12	1.12	1.45
Peanut, refined	.13 3/4	.13 3/4	.13 3/4	.10
Soya Bean, bbls.	.11 1/2	.11 1/2	.11 1/2	.07 3/4
Average	.0473	.0474	.0475	.0394

Oil trading has continued along very narrow lines with practically no interest from consuming buyers. Linseed oil has weakened and crushers are asking for bids. China wood, perilla and soya bean oils are well maintained. Degras is lower. Cottonseed oil is soft. Fish oils are holding fairly well with stocks light. Turpentine is higher here. Rosin prices are somewhat uncertain but tending firmer.

#### Vegetable Oils

**Linseed Oil**—Prices from some crushers lower at 88c, others 90c, and still others are reported asking bids at 86c, basis carlots in barrels. Imports continue heavy with prices on the spot of 86c@88c subject to some shading. London prices are easier at 44s per quintal. Antwerp quotes slightly easier at 218 francs per 100 kilos.

Flaxseed prices are generally easier. Buenos Aires quotes \$1.90 1/2. Duluth May-July prices are \$2.67@ \$2.70 against \$2.59 quoted for October. Winnipeg easy at \$2.41 1/2 for nearby positions with futures lower.

**Castor Oil**—Little activity. Quoted firm at crushers' basis of 12c for No. 1 in barrels and 11c for No. 3.

**China Wood Oil**—Spot steady at 13 1/2c@14c in barrels. Nothing better than this is offered and there are indications of advances in the Orient. For the present 12c@12 1/2c for barrels c. i. f. New York from the Orient can be done. Coast oil is inactive at a nominal price of 11 1/2c in sellers' tanks.

**Coconut Oil**—Some indications of weakening but prices generally steady. Business limited. Ceylon barrels at 8 3/4c@9c spot and Cochinchina barrels at 9 3/4c@10c. Manila oil on the Coast steady at 7 1/4c@7 1/2c in sellers' tanks. Edible coconut in barrels here at 10c@10 1/2c.

**Corn Oil**—Tanks at mills quoted at 9 1/2c@9 3/4c without change and little demand from consumers. Barrels at mill at 10 3/4c@11c. Spot refined quoted at 12c@12 1/2c in barrels.

**Cottonseed Oil**—Virtually no demand for nearby or future deliveries. Prices continue weak but show no definite sag. Prime summer yellow on the Exchange at 11 1/4c@12c June to October, and 9 3/4c@10c for November to January. Crude cottonseed at mills remains nominal at 10c in buyers' tanks with no interest from consumers and stocks very low.

**Olive Oil**—Denatured is reported higher in some directions but is still to be had at \$1.12@\$1.15. Edible steady at \$1.85@\$2.25 per gallon in barrels as to brand. Foots are easy at 8 3/4c@9c on the spot. Shipment prices are firm at 8 1/2c@8 3/4c. Activity along routine lines only.

**Palm Oil**—Heavy arrivals during the week tended to weaken the market here. No definite reductions have followed as yet. Lagos casks at 7 1/4c@7 1/2c. Bonny old Calabar at 6 3/4c@7c. Niger offered at 6 1/4c@6 1/2c.

**Palm Kernel Oil**—No change from 9c@9 1/4c quoted on English oil here.

**Peanut Oil**—Inactive at recent levels. Nominal prices on crude are 10c@10 1/4c in buyers' tanks at mills but few sales are being made in the absence of demand. Spot crude is nominally quoted at 11 1/2c in barrels. Refined oil spot in barrels at 13c@13 1/2c.

**Perilla Oil**—Offers firm from the Orient very scarce for anything nearby. Nominally 12 1/2c can be done c. i. f. New York in barrels. Nothing less than 13 1/2c@14c can be done spot for barrels. Demand continues active. Some oil on the Coast is heard at 12c in sellers' tanks.

**Soya Bean Oil**—Coast position easy at 10c@10 1/2c in sellers' tanks June and July. Offers are heard c. i. f. New York for prompt shipment from the Orient at 7c@7 1/2c in bond for bulk oil. Apparently these offers are attracting some attention from consumers. Spot crude in barrels is held at 11 1/2c.

#### Animal Oils

**Degras**—Prices are easier in some directions. English is offered over a range as to brand at 4 1/4c@5c. American easier at 4c.

**Neatsfoot Oil**—Pure neatsfoot at 18c. Cold pressed (20° cold test) at 24c with some offers as low as 22c. Routine demand.

#### Fish Oils

**Cod Oil**—Supplies continue limited. Some sales around 60c here.

**Herring Oil**—Heavy arrivals of Japanese oil have not broken the market as yet, but the quoted price of 44c on spot barrels is not expected to hold.

**Menhaden Oil**—Offers of crude for future delivery are heard at 35c in barrels at mills. Consumers are holding off. Refined grades unchanged.

#### Naval Stores

**Rosin**—Prices firmer with variations between sellers on many grades. Business in fair proportions.

**Turpentine**—Prices net higher at 99 1/2c@\$1.00 per gallon spot. London easier at 72s per quintal. Savannah sales at 91 1/2c.

## Oil Trade Notes

Some improvement is noted in the demand of tanners for oil but the edible oils continue neglected.

The Procter & Gamble Co. has declared a quarterly dividend of 1½ per cent payable June 15 on stock of record May 25.

The Bisbee Linseed Co., of Philadelphia, will begin the production of double boiled and special varnish oils about June 15.

The Sunflower Oil & Supply Co., of Topeka, Kan., whose warehouse was damaged by fire, recently, carried \$3,700 insurance.

J. H. Humphries, Bradentown, Fla. is to construct a plant on local site for the manufacture of commercial fertilizer products.

The prospect of stocks of the new crop of menhaden oil at Baltimore within a week or so has led to prices lower than those recently quoted for old oil on a nominal basis.

The Forest Products Co., of San Francisco, which manufactures turpentine and rosin in the pine belt of the Sierra Nevada mountains, is preparing to establish six additional camps this season.

Trading in cottonseed oil for November and December delivery from the new crop has been disappointing and neither speculative nor consuming buyers are willing to assume the risk of the outcome of the tariff.

Rubberseed oil, 50 barrels from Singapore, and Japanese herring oil, 3,000 cases from Yokohama, were among the week's imports at New York. These are the first shipments of these oils to arrive here in many months.

Other oils imported last week were : 330 casks of Newfoundland cod oil, 1,400 casks of palm oil, and 250 casks, 1,535 barrels and a bulk lot of 12,000 piculs of China wood oil. The total imports were far above the average.

A large deposit of bentonite has been discovered in Washoe County, Nevada, and arrangements are being made to develop it. Bentonine is a plastic clay used extensively as a filter in paper making and as an ingredient of soap and paints.

In spite of the statements of crushers of linseed oil to the effect that they are less troubled by imports than formerly, two bulk shipments totalling 1,665 tons and odd lots totalling 4,100 barrels arrived at New York last week.

Marine surveyors have been making an examination of the steamer City of Bombay, which arrived at San Francisco early in May from Hull, with a large consignment of linseed oil. Several thousand barrels of linseed oil were ruined as a result of fuel oil seeping into it. The surveyors reported that the cargo was damaged when plates in the fuel tank became loosened as a result of the vessel striking a reef on the British coast.

Imports at San Francisco for the week ending May 20 included the following: On the steamer Saleier, from Soerabaia and Manila, 475 bags tapioca seed, 4,000 bags paraffine wax and 598 tons coconut oil; on the steamer Tjisalak, from Batavia and Manila, 1,154 bags tapioca seed, 94 bags cocoa beans, 1,600 bags wax, 1,179 sacks copra and 888 tons coconut oil; on the steamer Honduras, from Antwerp, 508 bags gum copal, and from Havre, 285 bags tartar, 80 cases mustard and 60 cases olive oil; on the steamer Mexican, from Hamburg and London, 40 casks lithopone, 5 barrels titaniumpotassium oxalate and 1 case indigo.

## FOREIGN TRADE IN LINSEED OIL

(Special to DRUG TRADE WEEKLY)

Washington, D. C., May 31.—Imports of linseed oil during March were as follows:

Countries	Gallons	Dollars
Belgium .....	94,146	49,324
Denmark .....	525	225
Netherlands .....	1,298,935	689,693
England .....	1,745,631	846,035
Scotland .....	3,867	2,239

March exports of linseed oil were shipped chiefly to the following countries:

Canada—Quebec & Ontario..	1,784	195
Costa Rica .....	7,601	880
Honduras .....	12,072	1,315
Nicaragua .....	2,576	345
Guatemala .....	1,264	135
Panama .....	6,409	923
Salvador .....	9,154	958
Mexico .....	56,575	7,468
Newfoundland and Labrador.	15,053	1,758
Cuba .....	65,184	7,298
Dominican Republic .....	4,955	482
Colombia .....	20,576	2,491
Peru .....	4,262	468
Venezuela .....	12,125	1,542
British India .....	1,866	227

The total imports were 3,143,109 gallons, valued at \$1,587,526. Exports amounted to 233,982 gallons, valued at \$28,065.

## GERMAN PRICES IN 1914 AND NOW

Brueckner, Lampe, & Co., Berlin, Germany, note sharp advances in the Berlin market in a letter of the end of April, which says: "In the market for drugs, chemicals and pharmaceuticals a steady advance in prices is in progress. The announcement of the new tax on medicines caused approximately 750 advances against 40 price reductions. It should not be forgotten that in these goods the increase in the cost of packings some forty to fifty-fold has played an important role, since in many cases this has amounted to more than the increase in the cost of the material itself."

It is interesting to compare present prices with those before the war. The advances are about as follows:

Bismuth Preparations	Cod Liver Oil (medicinal)
80-fold	70-fold
Boron Preparations	Morphine
120-fold	60-fold
Bromides	Mercurials
20-fold	96-fold
Quinine	Salicylates
180-fold	65-fold
Cocaine	Valerian Root
240-fold	35-fold
Glycerin	Althea Root
56-fold	30-fold
Iodine Compds.	Fennel Seed
105-fold	54-fold
	Elder Flowers
	37-fold
	Linden Flowers
	30-fold

A. L. Sullivan, chief of the Bureau of Foods and Drugs, of the Maryland Health Department, has sent out application forms to about 120 bottlers in the State who must take out licenses by June 1 under the new law. The license fee is \$25. The law provides strict regulations for sanitation in bottling plants and the handling of the product.

Ernest E. Stanley, Calvert Building, Baltimore, is organizing a new company for the establishment of a plant for the manufacture of chemicals. A building has been leased at Biddle st. and Madison ave. for the proposed new works.

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, Pages 1268-1269

### LITTLE DOING IN BOTANICAL DRUGS

Trade Closed Down Monday and Tuesday—Stocks of Spot Crude Drugs, Especially Imported, Growing Small—Buchu Firmer—Insect Powder Easier—Lower Price on Senega Root

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

##### Advanced

Vanilla Beans, Mexican, \$1 lb.	Thyme, French, ½ lb.
Gum Benzoin, 5c lb.	Aniseed, Span., ½ lb.
Gum Guaiac, 10c lb.	Coriander Seed, Mor., ½ lb.
Buchu Lvs., Short, 2½c lb.	Mustards, Yellow, ½ lb.

##### Declined

Cantharides, Russ., 50c lb.	Insect Powder, 1c lb.
Manna, Sml. Flk., 2c lb.	Dandelion Root, Imp., ½ lb.
Balsam Peru, 15c lb.	Ipecac, Powdered, 5c lb.
Wild Cherry Bark, 2c lb.	Senega Root, 15c lb.
Cloves, Zanzib., ½c lb.	Peppers, Cherries, ½ lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year
Aconite Root, U.S.P. ....	\$.22	\$.22	\$.22	\$.25
Buchu Leaves, Short .....	.87½	.85	.85	1.05
Cantharides, Russian .....	4.50	5.00	3.50	2.00
Cocculus Indicus .....	.04½	.04½	.04½	.14
Ergot, Spanish .....	1.02	1.02	.95	1.00
Insect Powder, pure .....	.52	.53	.53	.36
Ipecac, Cartagena, powd.....	1.85	1.90	2.00	2.50
Nux Vomica .....	.06	.06	.06	.14
Opium, gum .....	6.00	6.00	5.75	5.50
Rhubarb Root, H. D.....	.60	.60	.65	.30
Tragacanth, No. 1, ribbon.....	1.90	1.90	2.00	3.60
Wild Cherry Bk. thin nat.....	.09	.09	.09	.10
Average .....	1.38	1.39	1.38	1.42

The number of crude drug houses operating in New York the early part of this week was insufficient to excite the market to any noticeable activity. Many houses did not reopen after Saturday's close, until Wednesday morning, and the trade marked time in the interim. One feature of the local crude drug market which makes itself more apparent each week, is the fact that supplies of numerous items, particularly imported ones, are in small supply here, and cost of replacement abroad is well above spot prices. Buchu has stiffened up on spot. Balsam Peru is easier. Gum guaiac is scarce. Insect powder is easier. Lower priced senega root is offered. Mustards are stronger. Small flake manna is softer.

#### Crude Drugs

**Cantharides**—Small lots only of Russia offered on spot at \$4.50lb. for whole and \$5.00 for powdered. Chinese at \$1.00 whole flies, \$1.25 powder.

**Ergot**—Spot ergot in bags is named at \$1.02lb. while smaller lots are commanding up to \$1.05. Demand continues confined to small routine quantities, owing to uncertainty of stocks.

**Lycopodium**—Continues steady with demand quiet at \$1.00lb. for 22lb. packages. Quoted to \$1.10.

**Manna**—Small flake manna is slightly easier here at 48c lb. in cases. Large flake unchanged at 85c. Sorts 43c@45c.

**Nux Vomica**—Still soft at 10c lb. powdered U.S.P. spot. Buttons 6c@8c.

**Balsams**—Spot Peru balsam is cheaper at \$2.00@ \$2.10lb. Tolu is firm at 50c@60c lb. Oregon fir bbls. \$1.20 gal.; cans \$1.45.

#### Barks

**Elm**—Pressure still tends to make prices sag although no further recessions in values have been admitted by sellers this week. Five lb. bundles at 21c@22c lb. spot. Demand small. Grinding bark 11c@12c; powdered and ground 13c@14c lb.

**Soap**—Whole firmer 6c lb. spot. Cut and crushed 8½c@9c lb.

**Wild Cherry**—Larger offerings from country. Thin green rossed 10c@14c lb.; thick rossed, 7½c@8c; thin natural 8c@9c; thick natural, 5c@5½c lb.

#### Beans and Berries

**Mexican vanilla** beans are practically nominal on spot. Whole as to quality from \$10.00lb. up to \$18.00. Cuts \$8.00@9.00. Bourbons unchanged at \$3.00 up to \$3.75lb.

**Cubebs** are in small supply here at 95c lb. ordinary, \$1.00 XX or powder. Fish berries 4½c lb. Junipers 3¾c bags spot.

#### Flowers

**Chamomile**—Hungarian spot cases slightly easier 29c lb. up to 32c as to seller. Romans 75c.

**Insect**—Powder slightly easier on reduced demand at 52c lb. bbls. Named up to 60c as to seller and brand. Half and half powder 33c bbls.

**Saffron**—American spot bales \$1.05lb.; less bales, \$1.10@1.15. Spanish spot \$27.00lb. unchanged.

#### Gums

Spot guaiac in a small way at 60c lb. Benzoin practically nominal 55c spot. Arabic amber sorts firm 12c@12c spot.

#### Leaves and Herbs

**Buchu**—Firmer both on spot and for shipment according to reports. Named shipments 3s 4½d c. i. f. which works out about 75c, or equal to 85c duty paid without charges. Spot prices in some cases have jumped to 95c for bales. One seller at 86½c@87½c spot bales, and 95c less bales.

**Henbane**—Offering of powdered in a small way at 60c lb. spot. Whole nominal 65c.

#### Roots

**Dandelion**—Continues soft and under pressure on spot with small demand at 7c@7½c lb.

**Ipecac**—Spot whole Cartagena or Rio, \$1.60lb. Powdered sold easier this week on spot \$1.85. Range to \$2.00lb.

**Mandrake**—Position displays firmness. Price strong 11c@12c lb. spot.

**Rhubarb**—Unchanged and quiet at 60c lb. common round whole cases; 65c powdered spot.

**Senega**—Offers from country have softened position. Spot offers 95c@1.00lb.

#### Seeds, Spices, etc.

**Aniseed**—Star nominal 18c. To arrive 13c lb. Spanish firmer 17¼c lb. spot.

**Coriander**—Unbleached spot firmer 6c lb. Bleached 8½c.

**Cloves**—Zanzibars easier spot 29c bales.

**Mustard**—Yellow mustards firmer spot. English good 7c; Danish and Dutch 6½c@7c lb.

**Candelila Wax**—Practically nominal on spot at 35c lb.

## Crude Drug Notes

Seventy-four bags of orris root came in at New York last week from Leghorn.

Imports of vanilla beans last week included 30 cases from Vera Cruz and 251 cases from Marseilles.

S. B. Penick & Co. have issued a new price list and descriptive manual of crude drugs under date of May 29th.

Among the crude drug shipments from Hamburg last week to this port were 144 bales of belladonna leaves and 36 bales of jaborandi leaves.

Cheap shipment figures for buchu are reported to have been moved up generally by Cape Town, inside quotations now naming 3s 4½d c. i. f. New York.

At the rate prices for shipment on Dalmatian insect flowers are rising, the position of spot flowers as well as powder may reflect this movement in the near future.

The Alumni Association of the University of Maryland held its annual banquet on the evening of May 31 at the City Club in Baltimore. The alumni of all four departments of the University—medicine, law, pharmacy and dentistry—were represented. The graduating class of the department of pharmacy numbers about twenty-five.

Damage estimated at \$25,000 was caused by a fire in the printing department of the Paris Medicine Co., St. Louis, last week. The first is believed to have started from spontaneous combustion. The blaze was confined to one department on the second floor of the five-story brick building. The company employees 150 persons and they were laid off, but E. W. Groves, president of the company, said the plant would be running in a couple of days.

An opinion on the domestic crude drug market outlook, gives the following: "Within sixty days we will begin to receive supplies of the new crop of many crude drugs. On account of this, changes have been occurring in the last thirty days and will continue another sixty days of a rather sharp nature. Those drugs, the forecast of which indicates a small supply this season, have advanced sharply or will do so. Others, of which a liberal supply has been brought forward and of which there is likely to be a normal crop, have already weakened and are declining. It appears that the former class is in the majority."

### SPECIAL TRAINS FOR N. W. D. A.

The Committee on Rates and Routes of the National Wholesale Druggists' Assn. has issued a bulletin on the trains which will convey the members to the 48th annual meeting, Colorado Springs, October 2 to 7. New York members will leave on Thursday, Sept. 28th at 5:00 P. M. Standard Time, from Grand Central Station on the Wolverine. New England members will leave Boston at 2:10 P. M. on Sept 28th, and be attached to the New York train at Albany. This train will reach Chicago at 2:00 P. M. Friday, Sept. 29th. Delegates from Philadelphia, will leave North Philadelphia, Sept. 28th, at 8:00 P. M. Others will leave Washington at 6:50 P. M.; Baltimore at 7:53 P. M., and join the Philadelphia party at Harrisburg at 10:10 P. M. Walter V. Smith, 2nd and Green sts., Philadelphia, is in charge of reservations. The Chicago Drug and Chemical Trades will entertain the members en route through Chicago. Members from St. Louis and points South and Southeast will join the official party at Kansas City.

### NEW YORK BARS CERTAIN "MEDICINES"

The New York Department of Health, division of patent and proprietary medicines, has analyzed certain preparations to determine whether the therapeutic action of the ingredients could relieve ailments as claimed in the literature accompanying the medicines. The report says:

"Two manufacturers offered preparations for registration that were said to be cures for leprosy. On learning the names of some of the active ingredients, this claim was disputed, and one of the manufacturers withdrew his medicine—which was, in our opinion, evidence that he doubted the preparation's efficacy. The other, however, maintained it was a positive cure. Therefore, the application for registrations was denied, and the manufacturer notified that he would be prosecuted if he sold it in New York City. Another preparation presented consisted of a bag of clay containing a small amount of free sulphur. This bag, weighing from 2 to 9 lbs., was to be applied hot, in cases of cancer and other tumors, tuberculosis, appendicitis, and various other diseases. A large number of testimonials were submitted to prove the truth of the claims made for it. The analysis and literature lauding its virtue, and testimony given before a Federal Judge to the effect that the witnesses had been permanently relieved of cancer and other diseases, was presented to the Patent Medicine Committee of the Department of Health for its opinion. This committee pronounced the claims fraudulent, false, and exaggerated, and recommended prosecution if the preparation was sold or offered for sale in New York City."

### PERFUMERS' DRIVE FOR MEMBERS

The Manufacturing Perfumers' Association has instituted a campaign to broaden their interests and increase the membership of the organization among the perfumery and toilet goods industries of the United States. As an inducement to new members, the Association has drawn up a list of twelve advantages which accrue to members, which include registration of trade names, credit information bureau, educational propaganda, legal service, statistical service, bureau of standards, maintenance of ethical standards, confidential bulletin service on legislation, and others. Frank K. Woodworth, 305 Broadway, New York, is directing the Association's drive for new members.

### STARTS CAMPAIGN FOR CLEAN DRUGS

A campaign to eliminate excessive dirt from crude drugs has been started by the Bureau of Chemistry, Department of Agriculture, which is charged with the enforcement of the Federal Food and Drugs Act. An investigation by the bureau shows that the shipping of dirty domestic crude drugs is due largely to carelessness in gathering. Excessive dirt constitutes adulteration in crude drugs shipped within the jurisdiction of the Federal Food and Drugs Act. In some instances crude drugs were found to contain 20 per cent or more of dirt.

Charging fraud and asking damages of \$500,000, the International Aluminum Co. has filed suit at Charleston, W. Va., against the Charleston Industrial Corporation, the Virginian Power Co., A. B. Leach & Co., James Douglass, H. G. Scott, D. C. Schaeffer, C. S. Jenner and W. B. Payne, in connection with the transaction by which the U. S. Government sold its \$125,000,000 war-time explosive plants.

The James F. Ballard, who gave his collection of rugs, valued at half a million dollars to the Museum of Art, New York, is a proprietary medicine manufacturer in St. Louis.



## The Essential Oil Market

Current Spot Quotations of Essential Oils and Aromatic Chemicals, Pages 1271-1272

### TRADE CLOSED OVER HOLIDAY

**New York Essential Oil Houses Shut Down From Saturday Until Wednesday—Few Price Changes With Demand Dull—U.S.P. Oil Peppermint Strong Feature—Lemon and Cloves Weak**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Oil Lavender, 25c lb.	Advanced
	Oil Peppermint, U.S.P., 5c lb.
Oil Cloves, 5c lb.	Declined
	Benzyl Acetate, 10c lb. Musk Ambrette, 50c lb.

#### Trend of the Market

	Today	Last Week	Last Month	Last Year
Oil Bergamot	\$4.40	\$4.40	\$4.50	\$5.75
Oil Citronella, Ceylon	.53	.53	.54	.32
Oil Cloves	1.95	2.00	2.10	1.30
Oil Lemon	.75	.75	.80	.70
Oil Peppermint, Natural	1.85	1.85	1.75	2.40
Oil Sandalwood E. I.	7.10	7.10	7.20	7.00
Oil Sassafras, Artif.	.45	.45	.45	.57
Benzaldehyde, U.S.P.	1.40	1.40	1.40	1.50
Coumarin	3.00	3.00	3.00	4.75
Methyl Salicylate, Cans	.35	.35	.35	.35
Vanillin	.50	.50	.50	.50
Average	2.09	2.09	2.09	2.28

In a dull market, little or nothing has been done among the essential oil houses over the holiday, most houses closing from last Saturday until Wednesday. Demand has confined itself to small routine limits, while price revisions have been few. The market appears to have settled down into its summer lethargy, but with the uncertain condition of stocks, shipment positions, and the tariff, there is little telling just what the next few months hold in the way of prices. Little peppermint is held on spot, although country stocks are ample, and position is very firm. Lavender flower oil is firmer. Cloves is soft. Lemon is dull and easy.

#### Essential Oils

**Oil Anise**—Spot position unchanged at 50c@55c lb. tech.; 60c@65c lb. U.S.P.

**Oil Bergamot**—Continues easy and unchanged at \$4.40@4.50 lb. spot for standard brands in coppers.

**Oil Cajuput**—Recent attempts to buy found nothing under 75c@80c lb. for spot native oil and 80c@85c for U.S.P.

**Oil Camphor**—White Japanese 19c@20c lb. spot cases or drums. Chinese 17c@19c lb.

**Oil Caraway**—Still named spot at \$2.25@2.40 lb. rectified oil in cans as to seller. Firm and tending upward.

**Oil Cassia**—U.S.P. strongly maintained at \$1.75 lb. spot cases with smaller lots commanding \$1.85. Technical nominal \$1.25 on consumer's affidavit.

**Oil Cedar Leaf**—Ranges from 85c down to 75c lb. for spot goods in cans. Country names 75c f. o. b.

**Oil Citronella**—Unchanged and quiet on spot at 53c @54c lb. for Ceylon in drums. Cans 54c@55c lb. Some holders claim to be selling nothing under 54c spot. Demand continues restricted.

**Oil Cloves**—According to distiller, price range is wide, \$1.95 being inside up to \$2.25 for cans which

appears to be top quotations. Small demand and the continued uncertain position of the spice hold clove oil in a soft position.

**Oil Coriander**—Strong at \$11.50 lb. spot standard goods, as per recent sharp advance.

**Oil Eucalyptus**—U.S.P. Australian oil spot in cases at 35c up to 38c lb. as to seller and quantity. Also quoted drums spot at 35c. Demand quiet and position continues generally weak.

**Oil Lavender**—For good quality U.S.P. oil lavender flowers, \$3.25 lb. has been named inside now by several houses. Other qualities range up to \$4.50 lb. spot. Cheaper goods, less U.S.P. down to \$2.00. Spike spot fair average 80c@90c lb.

**Oil Lemon**—Continues weak here as a result of small demand and variable speculative activity on spot and abroad. Spot Sicilian oil cases at 75c lb., one to five case lots. American oil at same price spot. Shipment from Sicily about 65c c. i. f.

**Oil Limes**—In fair demand with small stocks firmly held on spot at \$3.00 lb. for expressed oil. Distilled 50c@55c.

**Oil Orange**—Maintains firm position, but is quiet on spot. Prices about the same at \$2.65@2.75 lb. West Indian cases; Sicilian \$3.10@3.25 lb.; American oil \$3.25 all spot New York.

**Oil Peppermint**—U.S.P. oil stands out as one of the firm features of the spot market with inside prices indicated at \$2.15 lb. cases. Natural oil spot \$1.85. Supplies of peppermint oil in New York are reported small although plentiful stocks are available in the country. Fair routine export demand.

**Oil Petit Grain**—Spot position soft and unchanged at \$1.65@1.70 lb. for South American. French genuine \$7.50@8.00 lb.

**Oil Sandalwood**—Spot U.S.P. East Indian \$7.10 lb. case lots, \$7.20 less. Softer on spot with demand dull.

**Oil Wormseed**—Has apparently steadied down at \$3.00 lb. for spot U.S.P. oil with demand small.

#### Aromatic Chemicals

**Benzaldehyde**—Unchanged and steady at \$1.40 lb. U. S. P., \$1.60 f. f. c., official price of manufacturers.

**Benzyl Acetate**—Cheaper lots available down to \$1.00 @ \$1.10, but for good quality, \$1.15@1.25 lb. is reported asked.

**Coumarin**—Demand routine. Competition keen. Price unchanged \$3.00@3.25 lb. makers.

**Methyl Salicylate**—Resale lots 33c@34c 50 lb. cases. Makers name 35c inside.

**Musk Ambrette**—Most sellers at \$13.00@14.00 lb. spot. One house names \$12.00.

**Vanillin**—Quiet. Competition for the bigger business is keen. Makers 50c oz. basis unchanged. Outside lots 48c spot.

The Board of United States General Appraisers has handed down reappraisements on essential oils, imported from Fratelli Jung, of Palermo, Italy.

Hongkong shipped 30 cases of oil cassia to the New York market, arrival noted last week.



## Essential Oil Notes

Russell Stoddard, of Ungerer & Co., New York essential oil importers, was confined to his home by illness the greater part of last week.

John Taylor & Co., Ltd., Toronto, soap manufacturers, have announced the removal of their offices to the Lever Building, Eastern Ave., Toronto.

Some three hundred cases of lemon oil came in here last week. From Messina, 82 cases were listed while from Piraeus, two shipments totaled 220 cases.

Out of 142 drums of oil citronella which were imported at New York last week, 84 came from Colombo while the balance was shipped from Java ports.

Frank K. Woodworth, new managing director of the Manufacturing Perfumers' Assn. is making his headquarters at the office of the association, 305 Broadway, New York.

E. V. Kileen, vice-president of George Lueders & Co., New York essential oil house, sailed for Europe on May 27, accompanied by his wife and family. He expects to return about Sept. 1.

As May, 1922, closes, the essential oil trade finds that the month was not a great deal better than April, and that a tendency to sink into the lethargy of the hot weather months, is quite noticeable.

Magnus, Mabee & Reynard, New York essential oil importers, announce that they now carry complete stocks of their full line at the warehouse of their Pacific Coast agents, George W. Smith & Sons, San Francisco.

### ITALIAN ESSENTIAL OILS HIGHER

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Milan, Italy, May 12.—The demand for Roman chamomiles, Ceylon cinnamon, eucalyptus, gingergrass, Calabrian lemon juice, and machine pressed lemon juice, has increased and prices have been advanced, but synthetic neroli, lemongrass and green cognac are lower. The Italian lire gained in value during the first days of April bringing better offers from France and England. The United States dollar was reduced from a value of lire 20.50 to lire 18.50; the English pound sterling from lire 85.50 to lire 82.00; the French franc from lire 1.80 to lire 1.70, and the German mark from lire 0.07 to lire 0.06.

The foreigners brought to Italy by the Milan industrial fair and the International Conference to be held at Genoa, have purchased considerable quantities of essences and perfumes. Negotiations between the representatives of Germany and Italy have resulted in arrangements for an exchange of many products including raw materials for synthetic perfumery, and essential oils.

Prices of essential oils are as follows, per kilo:—Angelica roots, 1,500 lire; angelica seeds, 1,200 lire; anis anethole, 65 lire; anis (Red Ship), 32 lire; bitter orange 125 lire; sweet orange, 130 lire; arnica flowers, 3,000 lire; absynth, 250 lire; bergamot, 30-35 per cent ethers, 180 lire; betulla, 40 lire; chamomiles (Roman), rose from 1,800 to 2,400 lire. eucalyptus, globulis, rectified, 35 lire; sweet fennel, crystals, 75 lire. fennel (technical), 60 lire; juniper twigs, 50 lire; Florentine iris, 4,000 lire; brown iris for soaps, 340 lire; laurel, 85 lire; Italian lavender, 180-240 lire; cedar wood, rectified, 47 lire; Calabrian lime juice, distilled, 65 lire; Calabrian lime juice, pressed, 100 lire.

### PROHIBITION VIEW OF BAY RUM

Prior to the issuance of regulations permitting alcohol to be used in the manufacture of bay rum, large quantities of that article were rendered unfit for beverage purposes by the addition of tartar emetic, quinine or one of the other "modifying" agents, says the Washington correspondent of the National Wholesale Druggists' Association. Imported bay rum was also required to be "modified" before being bottled for sale in the United States. While this "modifying" was theoretically accomplished in customs custody, in practice reputable importers were granted permission to remove the goods in the original packages to their premises and added the "modifying" agent before bottling. This general rule is still in force.

Many erroneous statements have been made concerning the labeling of bay rum, one of the most misleading of which is the assertion that, because the name "Bay Rum" does not appear in the 1910 edition of the United States Pharmacopoeia, or in the fourth edition of the National Formulary (1916) it may be freely used on labels irrespective of the strength of the article or the "modifying" or denaturing agents employed in its modification or manufacture. It is true that the name "Bay Rum" does not appear in the current Pharmacopoeia or the fourth edition of the National Formulary. "Compound Spirits of Myrcia" has been substituted in the National Formulary, and the Food and Drugs Act applies to the standards set forth in that work. The product, however, is the same whatever the name and it will be noted that Section 7 of the Pure Food and Drug Law deems a drug to be misbranded "if its strength or purity fall below the professed standard or quality under which it is sold." Commercial bay rum is not recognized as a good delivery unless it conforms approximately to the National Formulary standard of compound spirits of myrcia; hence a substantial departure from such standard renders the article liable to seizure as adulterated unless the fact of the departure from standard is stated on the label. Bay Rum manufactured by the use of denatured alcohol may properly be labelled "Bay Rum—Made with denatured alcohol—For external use only." If the article is made in the usual way with pure non-beverage alcohol or is imported and is medicated with quinine sulphate before bottling, its label may properly read: "Bay Rum—Medicated with quinine sulphate—For external use only."

If bay rum is placed upon the market containing approximately less than the standard amount of alcohol or essential oil, the extent of the departure from standard should appear on the label. The prohibition authorities are not disposed to interfere with the sale of sub-standard goods, provided they have been duly medicated or unquestionably unfitted for beverage purposes, but the officials engaged in enforcing the Pure Food and Drug law naturally consider the matter from a more strictly ethical standpoint.

Putting the whole matter in a nutshell, the officials of the Prohibition Unit are concerned that all the preparations in question are rendered non-potable and that the public shall be discouraged from attempting to use them for beverages. The officials of the Bureau of Chemistry, however, are concerned that the products which come within their jurisdiction shall not be sold under labels that either violate the letter of the Pure Food and Drug law or that deceive the public as to their real character or composition. Manufacturers who bear these facts in mind and who do not aim at deception will have little difficulty in deciding upon proper labels for their goods.

## The Consuming Industries

### SOUTH URGED TO BUILD BLEACHERIES, DYEING AND OTHER FINISHING PLANTS

**President Tyson of American Cotton Manufacturers Draws Attention to Costly Selling Methods—Recommends Southern and Western Points of Distribution**

(Special to Drug & Chemical Markets)

Washington, D. C., May 31.—Finishing plants for the textile industry in the South were urged by Lawrence D. Tyson, of Knoxville, Tenn., president of the American Cotton M'frs.' Association in his address at the annual convention held here last week. Addressing more than 500 delegates at the Washington Hotel, Mr. Tyson declared that the Southern mills should make themselves entirely independent and bring about a condition where they would no longer be forced to ship their crude products to Northern and Eastern plants for finishing. He said Southern manufacturers would realize as large returns from this branch of the industry as they had from crude manufactures. Mr. Tyson continued:

"The textile industry in the South can never attain prosperity or independence until the majority of our mills, acting either independently or co-operatively shall diversify and finish their products in order that they may go direct to the consumer with them.

"What we need in the South is more finished fabrics ready for the trade; more bleacheries, more dyeing establishments and more converters; more printing plants and mercerizing plants; more knit goods establishments, hosiery mills and the like.

"It is an economic crime for the South to continue to produce goods and send them hundreds and even thousands of miles elsewhere to be advanced in manufacture, to be completed and distributed and then returned to us with all the increased cost, due to double transportation charges, double or even triple overhead expense, double selling expense and double distributing costs and more.

"Our usual selling methods must also be revised, either by selling direct or by closer co-operation with our selling agents, who should maintain Southern and Western branches with Southern and Western points of distribution."

A resolution asking Congress to continue the embargo against foreign dyes was adopted at the Saturday session of the Association. The resolution says that without protection the American dye industry "will be crushed and destroyed by the competition that would ensue." The dye provisions of the pending tariff bill are endorsed in the resolution.

Two sample books containing swatches of cotton goods and silk goods sold in the South Manchurian market have been received by the Textile Division of the Department of Commerce, and have been forwarded to the New York District Office for inspection by interested exporters, and manufacturers. The manager of a local firm at Antung states that all of the goods represented by the samples find a good sale throughout this district, and that American goods of the same style, more especially cotton shirtings, and sheetings, will find a ready sale there.

### New Consuming Companies

Union of Irish Industries, Dover, Del., capital \$1,000,000. To manufacture phonograph records. C. Henry, P. D. Benson, A. E. Claffey, New York. Incorporated by the Colonial Charter Co.

Boner & Co., Dover, Del., capital \$300,000. To manufacture dried milk products. Howard H. McCormick, Helen Gunbner, Rena M. Crumb, Chicago. Incorporated by the Delaware Registration Trust Co.

Mutual Dental Laboratories, Philadelphia, capital \$260,000. Incorporated by the Corporation Guarantee and Trust Co.

Poughkeepsie Arcade Drug Store, Poughkeepsie, N. Y., capital \$20,000. D. Harris, H. Mintzer, C. Lang. Attorney, W. A. Mulvey, Poughkeepsie.

Orange Drink Products Corp., New York, capital \$10,000. E. L. and W. F. Miller, E. W. Riker. Attorneys, Cherwig & Cherwig, 3 W. 29th st.

Henry Sundheimer, New York, capital 1,000 shares preferred stock, \$100 each; 1,000 shares of common stock, no par value; active capital \$10,000. Chemist and druggist. H. Sundheimer, I. Skutch, N. H. Maass. Attorneys, Feiner & Maass, 66 Pine st.

Elmwood Drug Co., Buffalo, N. Y., capital \$10,000. J. W. Cryer, S. Zarone, S. E. Kelly. Attorney, J. T. Driscoll, Buffalo.

Maison Maynard, Brooklyn, capital \$25,000. To make perfumes. E. C. Ballatyne, E. Peersall, B. Norton. Attorney, T. F. Vandorn, 141 Broadway, New York.

Aladin Co. of America, Wilmington, Del., capital \$1,000,000. To manufacture "Aladin Fizz." Incorporated by the Delaware Registration Trust Co.

James T. Blue Chemical Co., Dover, Del., capital \$25,000. To make toilet preparations. Jas. T. Blue, Emery W. Williams, Joseph N. Gownder, Washington. Incorporated by the Registration Trust Co.

Floret, New York, capital \$24,000. Drugs and chemicals. A. Albert, S. Marks, E. D. Gutchson. Attorneys, Stern & Marks, 146 Broadway.

Beacon Soap Co., Beacon, Dutchess County, N. Y., capital \$25,000. W. Hamberger, I. Weiss, F. W. Mann. Attorney, V. D. Stearns, Beacon, N. Y.

West Knitting Corp., Syracuse, N. Y., capital \$300,000. E. and C. H. West, L. R. Lafrance. Attorneys, Stilwell, Vidall & Skerritt, Syracuse.

Blackburn Photoplay Corp., New York, capital \$250,000. Motion pictures. Robert F. Blackburn, 1137 Castlehill ave., New York.

Eureka Power Co., Inc., New York, capital \$100,000. To manufacture steel, tools, and castings. Jow Yazbik, 79 Washington ave., New York.

Honey Products Co., Inc., New York, capital \$250,000. George Cook, Fort Plain, N. Y.

Tuc-Tur Metal Corp., New York, capital \$300,000. To manufacture "Tuc-Tur" metal. W. M. Smith, 25 Broad st., New York.

Singer Candy Works, Inc., 423 Hackensack Plank Road, West Hoboken, capital \$125,000.

Zinkan Refrigeration Co., Wilmington, Del., capital \$250,000.

Crescent Rubber Mfg. and Supply Co., Seattle, Wash., capital \$100,000.

Racine Horseshoe Tire Corp., Dover, Del., capital \$4,600,000.

Kino Krom, Inc., 8 E. Huron st., Chicago, capital \$100,000. To manufacture films. Paul Gerhardt, Jr., H. N. Miller, B. M. Emery.

Simmons Tire Corp., 111 W. Monroe st., Chicago, capital \$100,000. Clyde E. Tracy, Helen S. Tracy, Harold L. Feigenholtz.

Peerless Dyeing and Finishing Co., Woonsocket, R. I., capital \$100,000. Aime E. Bonin, Woonsocket; Wilford E. Lamorine, Central Falls; Eugene L. Jalbert, Woonsocket.

Lang Knitting Mills, New York, capital \$200,000. H. Gropher, J. Lang, W. I. Sirovich. Attorney, M. Sheinart, 39 Broadway.

Southern Sheet Metal Co., Wilmington, Del., capital \$3,500,000. Incorporated by the Corporation Trust Co. of America.

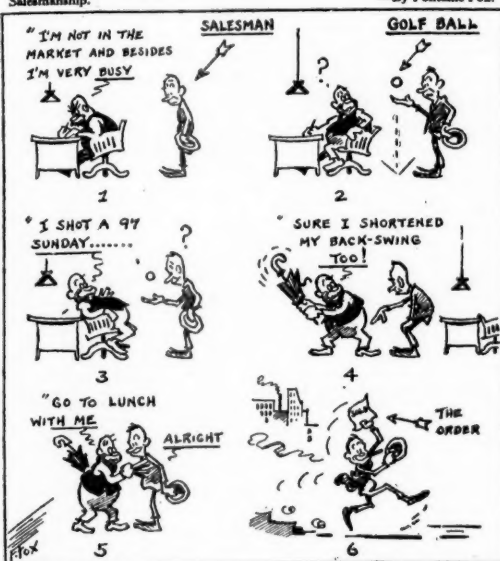
Odell Co., Newark, N. J., capital \$125,000. To manufacture toilet preparations. Reuben Odell, Sheldon R. Odell, Rose M. Odell, Newark.

The United Alkali Co., Ltd., opened a new power station at Widnes, recently, and the addresses made at the inspection ceremonies dwelt upon the reputation of the town as the leader in the chemical industry in England, which the speakers said was to be maintained in the future, especially in the older processes of manufacture.

## Trade Tips for Sellers

Salesmanship.

—By Fontaine Fox.



—From the New York "Globe"

Manufacturers of textile goods in Germany are billing goods for export in foreign currency.

The bleachers are about 80 per cent engaged, according to some recent estimates; the job printers about 60 per cent and the dyers are working up to capacity.

The Williamsburg Holding Co., 175 Hewes st., Brooklyn, has awarded a contract for a new six-story mill, 36 x 120 feet, on South Fifth st. and Driggs ave., for the manufacture of lace products.

The American Woolen Co. has temporarily withdrawn all lines, owing to advances in raw wool costs. The company has been a heavy purchaser of wool within the last few weeks. New and higher quotations are expected in the trade.

The Hayward Hosiery Co., Ipswich, Mass., has been incorporated under Massachusetts laws with capital of \$200,000 to manufacture stockings and woven fabrics, by Walter E. Hayward and associates. Mr. Hayward was agent of the Ipswich Mills for many years and recently resigned.

The buildings to be erected for the Goodall Worsted Co., at Sanford, Me., by the Wm. M. Bailey Co., of Boston, are one of brick and concrete, five stories and basement 64 x 274 ft. and another 82 x 274 ft.; also a one-story building 89 x 274 ft., all estimated to cost about \$600,000.

Joseph H. Zens, of the Milwaukee Hosiery Co., was elected president of the National Association of Hosiery and Underwear Manufacturers at the Philadelphia convention, on May 24. The Association decided to move its headquarters to New York, after being in Philadelphia for 18 years.

The Park Mills, Inc., has been organized at Dexter, Me., to operate woolen mills with capital of \$75,000. Thomas J. Park has been elected president and treasurer and Ralph T. Park, clerk, who with Gordon R. Park, compose the directors. T. J. Park is secretary and assistant manager of the Dumbarton Woolen Mills.

## AKRON RUBBER COMPANY SHOWS PROFITS

(Special to DRUG & CHEMICAL MARKETS)

Akron, O., May 31.—The Firestone Tire & Rubber Co.'s net earnings before charges for the first six months of the present year will be in excess of \$2,500,000. Bankers here consider the statement an indication that the rubber industry as a whole has earned profits during the present year and that statements by other companies will show similar figures in July.

The Firestone company's showing is made on an output of 18,000 tires a day while during May operations have been advanced beyond 23,000 tires a day. The first six months' business of the other companies, which start the fiscal year on Jan. 1 will include two months of high speed production not covered by the Firestone statement.

## LEATHER OUTLOOK BRIGHTER

(Special to DRUG & CHEMICAL MARKETS)

Boston, May 31.—Upper leather is in better demand, and is moving freely, this week. There is considerable business, also, in sole leather. More leather has been sold locally for export during the last few days, England and Russia being buyers. The largest tanner is reported to have sold considerable stock to New York shoe manufacturers. Opinion continues optimistic on the outlook.

Conditions in the ribbon industry show up less favorably than they did a month ago, it is said. A number of plants are working from 24 to 44 hours per week while others are closed down completely. One mill owner says that over 5,000 looms have been removed from the Paterson district during the last two years. Several prominent ribbon producers have decided to remove their plants which will cut down further the already decreased number of looms.

An advance of 25c per dozen in prices of full-fashioned opera length silk hosiery in light shades was announced last week by jobbers, the boost following that made by manufacturers three weeks ago. The mark-ups are attributed to the fact that many stocking mills have curtailed production in lines for spring, and supplies in the hands of jobbers are beginning to dwindle. Novelty open work effects in full-fashioned lines are included in the mark-ups.

In a decision overruling a protest of M. H. Birge & Sons Co., Buffalo, the Board of United States General Appraisers finds that artificial silk flocks were correctly assessed with duty on entry here at the rate of 45 per cent ad valorem as manufactures of silk, under Paragraph 318 of the tariff act of 1913. The importers claimed that the merchandise should have been assessed at a lower rate under one of the several provisions of the present law.

The Argo Fabrics Corp., Philadelphia, will manufacture knitted fabrics for outerwear, made of wool, worsted, silk and cotton, and all variations thereof. The plant is located at Howard and Oxford streets. Edwin H. Schloss is president; Harold A. Schloss, vice president and treasurer, and L. Bing, secretary. The product is sold through their New York offices, 315 Fourth avenue.

The United States Finishing Co. is now producing some fine vat color products in highly mercerized fine yarn cottons that will displace still more of the silk linings used in fine cloakings, says the New York "Journal of Commerce." Some recent examples of discharge printing and finishing displayed represent the finest types ever seen in cotton goods in this country.



## The Foreign Markets

Imports of Drugs, Chemicals, Dyestuffs, etc., Page 1273

### MERCURY ADVANCED 15 SHILLINGS

Ipecac and Olive Oil Higher—New Prices Announced on the Citrates, Linseed Oil, and Turpentine—The Bromides, Citric Acid, Coriander Seed, and Tartaric Acid Firmer

(Special Cable to DRUG & CHEMICAL MARKETS)

London, May 31.—Trading in fine chemicals and drugs is more brisk this week. Ipecac is higher; mercury has advanced 15 shillings; olive oil, also, is higher.

The market is firmer for bromides, citric acid, coriander seed, and tartaric acid.

Agar agar, menthol, shellac and vanillin are easier.

Lower prices are announced for citrates, linseed oil, and turpentine.

London, May 20 (By Mail).—Business appears to be slightly better, and prices generally are more steady than for some time past. Apiol is lower, being now quoted at 22s per oz. Atropine sulfate is offered by dealers at the lower figure of 11s 6d to 12s per oz. Bergamot oil is easier, at 17s 6d per lb. on spot.

Bromides are very firm, at the recent advances, and business has been done in Ammonium at 1s per lb., potassium at 10½c and soda at 10½d per lb.

Castor oil. Second pressings are 1s per cwt lower, at 50s, but first pressings and medicinal are both unchanged, at 52s and 57s per cwt. respectively.

Canary seed is considerably dearer, owing to reports of damage to the new crops in Morocco. Importers are asking 100s per quarter for Mazagan, 85s for Larache, and 110s per quarter for Spanish.

Citric Acid is firmer, and in good demand at the higher price of 2s 3d per lb.

Cocaine is still rising and expected to go higher, hydrochloride on spot is worth quite 16s 6d per oz. Cumin seed is still extremely scarce, and the higher price of 85s per cwt. is maintained. Ergot is now slightly easier, good sound Spanish having been sold at 4s per lb.

Glycerin. The English makers have issued revised lists reducing prices by £12 10s per ton all round. The price for 1260 S. G., chemically pure, in 10 cwt. drums, is now 87s 6d per cwt., for 5 tons and upwards, and in 56lb. tins, 97s 6d per cwt for the same quantities. Other qualities and packages at the usual proportionate rates.

Jalap powder is easier, at 40s to 41s per lb. Jalap resin is lower, at 22s per lb. and 23s for powder.

Linseed oil is unsettled. The latest price on spot is 46s 3d per cwt.

Menthol is dull and easier, at 24s per lb. on spot for Kobayashi and/or Suzuki.

Shellac has been quiet and easier, at 375s per cwt for usual standard T. N. Orange.

Star aniseed oil is rather higher, "Red Ship" brand being now 2s 3d per lb.

FOREIGN EXCHANGE	Par	Current
Great Britain (pound sterling).....	\$4.886	\$4.448
France (franc).....	.193	.091
Italy (lira).....	.193	.051
Germany (mark) per hundred.....	23.80	.320
Czechoslovakia (crown) per hundred.....	20.30	1.900
Austria (crown) per hundred.....	20.30	.012
Poland (mark) per hundred.....	23.80	.025
Japan (yen).....	.499	.473
Spain (peseta).....	.193	.159
Holland (guilder).....	.402	.388
Belgium (franc).....	.198	.083
Norway (crown).....	.268	.181
Switzerland (franc).....	.193	.191
Sweden (crown).....	.268	.259
Denmark (crown).....	.268	.213
Argentina (peso).....	.424	.365
Brazil (milreis).....	.279	.139
China (Silver dollar—Hongkong).....	.789	.600
(Tael—Shanghai, silver).....	1.042	.818
(Tael—Peking, silver).....	1.156	.885
Russia—(100 rubles).....	51.50	.100

### BRITISH BILL REQUIRES MARK OF ORIGIN

An important bill amending the present Merchandise Marks Act, which prescribes the requirements for the mark of goods imported into the United Kingdom has been submitted to the British Parliament, according to advices received by the Tariff Division of the Department of Commerce from Consul General Skinner and Assistant Commercial Attache Cobb.

Part 1 of this measure relates to merchandise marks and provides that an order may be made requiring an indication of origin if the Board of Trade is of opinion that a false impression as to the origin of any class of imported goods is likely to arise. This order, if issued, must specify the form and character of the indication to be given, whether by means of a mark applied to the goods and whether it is to be given at the time of importation only or at the time of any sale or exposure for sale in the United Kingdom. Goods imported into the United Kingdom for exportation after transit through the United Kingdom, or transshipped in the United Kingdom may be exempted from these requirements.

Section 4 prohibits the importation into the United Kingdom of:

(a) Goods to which there is applied a forged trade mark or false description, or to which a trade mark is falsely applied within the meaning of the Act;

(b) All goods made or produced outside the United Kingdom which may bear any name or trade mark being, or purporting to be, a name or trade mark of any manufacturer, dealer, or trader in the United Kingdom, unless accompanied by an indication of origin;

(c) Any goods in the case of which an indication of origin has been ordered under the Act, unless it be given;

(d) Any goods to, or in connection with which, a national or other public device is applied in contravention of the provisions of an Order under the Act, unless the device is accompanied by an indication of origin.

Section 5 provides that where any goods have been prohibited are exempt by reason of bearing an indication of origin, it shall not be lawful to remove, alter or obliterate such indication, and it is an offense to sell, or have in possession for sale, or for any purpose of trade, any goods in the case of which the indication has been removed, altered, or obliterated, unless authorized under the order.



## JAVA'S COCA SHIPMENTS TO U. S.

The bulk of Java coca is shipped to Amsterdam, Holland, writes Consul P. W. Buhman, of Soerabaya, to the Department of Commerce. Other markets are the United States and Japan. The exports of Java coca for the years 1916 to 1920, with the quantity shipped to the United States and Japan, were as follows:

Year	Total exports	Exports to	
		United States	Japan
1916 .....	897,600	600,600	4,400
1917 .....	598,000	517,000	37,400
1918 .....	1,456,400	897,600	558,800
1919 .....	2,186,000	275,000	235,000
1920 .....	3,755,400	24,000	649,000

Java coca has about the same alkaloid content as the Peruvian product. The basic alkaloid or Peruvian coca, however, is cocaine, while that of Java coca is cinnamylcocaine.

## DYE PRICES IN JAPAN COLLAPSE

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokyo, Japan, May 1.—The importation of low-priced dyes from Germany, France, Switzerland, and America continues. The latest feature of this over-importation is the arrival of artificial indigo or indigo blue.

When the prices of commodities had an upward tendency, the more that traders imported, the more the profits, so they vied with one another in ordering from America in all lines and in large quantities. Caustic soda, which was quoted at yen 11.50 for November and December shipments, is now at yen 10.80. Aniline, which was contracted at yen 75 per 100 kin, has now dropped to yen 45 with a margin of yen 30, very largely due to the importation of German goods.

## Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

2101—A merchant in Italy desires to secure an agency on consignment for the sale of a red oil suitable for use in conditioning woolen cloths, and lubricating oils. Quotations are desired c.i.f. Leghorn or Genoa. Correspondence should be in Italian, French, or German. References.

2145—A firm of commercial agents in South Africa wishes to secure an agency for the sale of proprietary articles for the chemist and drug trade. Reference.

2163—A merchant in Italy desires to secure an agency on consignment for the sale of chemical products for use in woolen textile industry. Quotations should be given c.i.f. Leghorn or Genoa. Correspondence desired in Italian, French, or German. References.

2169—A manufacturing company in Czechoslovakia desires to purchase lubricating oils, turpentine, resins, and petrolatum. Quotations desired c.i.f. German, French, or Holland ports. Correspondence should be in German or Czech. Reference.

2173—A manufacturing firm in Ireland desires to purchase 10 casks of stearin of standard quality, and 300 casks of paraffin scale of standard quality, for the manufacture of candles; and 50 barrels of turpentine. Quotations should be given f.o.b. New York. Terms: Cash. Reference.

2176—A supply company in Germany desires to purchase "Louisiana" sulfur. Quotations should be given c.i.f. German port, or f.o.b. American port. Reference.

2177—A request has been received from a firm in Spain for the purchase and an agency for drugs, pharmaceutical products, orthopedic supplies, toilet articles, photographic supplies, paints, and all kinds of chemical products. Quotations are desired c.i.f. Corunna or Vigo. Correspondence should be in Spanish or French. References.

2182—An inquiry has been received from a mercantile firm in France for an agency or the purchase of oil, tallow, oleaginous seeds, drugs, and chemical products. Quotations should be given c.i.f. French port.

VALUE OF RESEARCH IN INDUSTRY  
DISCUSSED BY CANADIAN CHEMISTS

Dr. R. F. Ruttan Leads Symposium of Canadian Section of Society of Chemical Industry—Papers Read on Rubber, Nickel, By-Product Coke Ovens, and "The Best Method of Handling Publicity for the Chemical Profession"

(Special to DRUG & CHEMICAL MARKETS)

Ottawa, Canada, May 31.—The Canadian Section of the Society of Chemical Industry met at Ottawa, May 16. Dr. R. F. Ruttan, in his annual address dealt with the increased importance of chemical research in connection with the development of natural resources and industrial expansion. C. E. Wallin, of Sydney, N. S., read a paper describing the operation of the Koppers by-product coke oven plants of the Dominion Iron & Steel Co. Dr. J. W. Shipley of the University of Manitoba dealt with the soil corrosion of iron and lead, which investigation had discovered to be due to the salt content of the ground waters in the soil. "Analytical Problems in the Metallurgy of Nickel" was the subject of a paper by F. E. Lathe of Deschenes, Quebec. Another paper of much interest was presented by R. F. Elworthy, of the Canadian Department of Mines, on "Chemical Products from Natural Gas." A joint session of the Society with Section Three of the Royal Society was held.

The Canadian Institute of Chemistry held its annual meeting on May 17, with Prof. J. Watson Bain, president, in the chair. A number of interesting papers were presented including the following: "The Constitution of Rubber," by Dr. M. C. Boswell, of Toronto University; "The Education of the Chemist," by Dr. L. F. Goodwin, of Queen's University, Kingston; "How the Institute can Best Serve the Canadian Chemist," by John S. Bates, Bathurst, N. B.; and "The Best Method of Handling Publicity for the Chemical Profession," by W. C. Lodge, Montreal. The following officers were elected: President, Dr. John S. Bates, Bathurst, N. B.; first vice president, F. J. Hambly, Ottawa; second vice president, Matthew A. Parker, Winnipeg; third vice president and treasurer, E. G. R. Ardagh, Toronto; secretary, L. E. Westman, Toronto.

The annual dinner was held on May 17, with about 100 present. The guests of honor were Hon. Jacques N. Bureau, Minister of Customs, J. H. Harris, M.P. and W. C. Good, M.P. Other speakers were Dr. J. S. Bates, M. L. Davies, Toronto; E. A. R. Ardagh, Toronto; Col. J. T. Janson, Ottawa; Prof. H. E. Bigelow, Mount Allison, N. B., and S. J. Cooke, Ottawa.

## CAMPHOR HIGHER IN TOKYO

(Special Correspondence to DRUG & CHEMICAL MARKETS)

Tokyo, Japan, May 1.—The drug market in Japan is handicapped by increasing arrivals of low-priced goods. Camphor is recovering in price, owing to America's heavy buying. Tablets are quoted at yen 195 per 100 pounds, which represents an upward turn. Camphor oil is more buoyant. Red oil has achieved an advance of yen 3 per picul.

Although atropine, caffeine, cocaine and some other narcotics are dormant, heroin and morphine are in fair request among merchants, and prices are on the upgrade. Heroin has been lingering around yen 27, but is now up to yen 29 per ounce. Morphine is yen 24 per ounce. Quinine is stronger and its price is yen 1.80 per ounce.

Menthol, peppermint oil and cod liver oil are, on the contrary, quite heavy, and flat with no marked change being noted in prices.

Foreign experts are being added to the staff connected with the Industrial Experiment Stations of Japan to find a solution of the shortage of raw materials.

# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

## EXPLANATION

Prices current quoted herein are spot New York, unless otherwise indicated, for goods in large quantities in original packages of the customary trading unit of weight or measure. Re-sale prices are quoted when second-hands are a factor in the market.

The price range (two sets of figures, e. g., .16-.19) indicates either prices for different quantity orders, or else that different manufacturers or importers quote different prices. All price ranges are inclusive.

All quotations are made on the basis of avoirdupois pounds and ounces or American gallons. For the ready reference of exporters and foreign buyers the following tables of equivalents are published:

## WEIGHTS AND MEASURES

1 Imperial Gallon (Brit.)—1.20 Amer. Gallons  
1 American Gallon—3.78 Imperial Gallons  
1 American Gallon—3.78 liters  
1 Liter—2.64 American Gallons  
1 American Gallon (H<sub>2</sub>O) weighs 8.35 pounds  
1 Pound (Avoirdupois) weighs .454 Kilogram  
1 Kilogram weighs 2.20 pounds (Avoirdupois)

## Acids

Acetic, See Heavy Chemicals		
Acetyl-salicylic, 200 lb. bbls..lb.	.76	— .80
Benzoic, U.S.P., 100 lb. bbls..lb.	.55	— .75
Boric cryst., 250 lb. bbls..lb.	.11½	— .12½
Powdered, bbls..lb.	.11½	— .12½
Butyric Tech., 98 p.c. chys..lb.	.11½	— .12½
Camphoric, U.S.P., bbls..lb.	4.65	— 4.75
Carbolic cryst., U.S.P. 1-lb. bottle .....	—	.27
5-lb. bottle .....	—	.23
50 to 100-lb. tins .....	.18	— .19
Liquid, U.S.P., 1 lb. bot..lb.	.20	— .26
Crude, 25 p.c., drums..gal.	—	.35
Chromic, 98 p.c., drums..lb.	40	— 45
Chrysophanic, bxs .....	1.70	— 1.90
Cinnamic, See Aromatic Chemicals		
Citric, crystals, bbls..lb.	.45	— .45½
Powdered .....	.46	— .46½
Imported, 112 lb. kegs .....	.44½	— .45
Cresylic, 95-100 p.c., See Coal-tar Crudes		
Formic 75 p.c., tech., bbls..lb.	.16	— .18
Gallic, U.S.P., bbls..lb.	.70	— .75
Glycerophosphoric, 25 p.c., chys..lb.	1.65	— 1.70
Hydrobromic, 40 p.c., chys..lb.	—	.40
Hydrochloric, C.P., carbons..lb.	.07	— .09
Hydroiodic, 48 p.c., bott..lb.	2.25	— 2.35
Hydrofluoric, see Heavy Chemicals		
Hypophosphorous, 50 p.c., chys..lb.	1.65	— 1.70
U.S.P., 10 p.c., chys..lb.	—	.37
Lactic, U.S.P., VIII, chys..lb.	—	.65
U.S.P., IX .....	—	.65
Malic, bbls .....	.42	— .44
Molybdic, C.P., kegs .....	—	3.00
Muriatic, see Heavy Chemicals		
Nitric, C.P., chys .....	.09	— .10
Oxalic, See Heavy Chemicals		
Picric, kegs, see Intermediates		
Phosphoric, 85-88 p.c., syr. U.S.P. 50 p.c., tech., chys .....	.14	— .19
Pyrogallic, resubl. bott..lb.	—	1.60
Crystals, bottles .....	—	1.20
Salicylic, U.S.P., less 1000 lbs..lb.	—	.26
Second Hands .....	.24	— .25
Sulfuric, C.P., chys .....	—	.07
Sulfurous (6-7 p.c.) chys..lb.	—	.05
Tannic, U.S.P., 25 lb. bbls..lb.	.65	— .70
Tartaric, Crystals, bbls..lb.	—	.30
Powdered, U.S.P. .....	—	.30
Imported, U.S.P. .....	.27½	— .28
Powdered .....	.28	— .28½

## Fine Chemicals

Acetanilid, U.S.P., 200 lb. bbl..lb.	.30	— .31
Acetone, 700 lb. drums..lb.	.08	— .11
Acetphenetidin, 100 lbs..lb.	—	1.85
Aconitine, Alk., Cryst., 1 oz. oz.	15.00	— 16.00
Amorphous, 1 oz. .....	15.00	— 16.00
Adeps Lanae, Hydrous, bbls..lb.	.20	— .21
Anhydrous .....	.22	— .23
Alcohol, U.S.P. 190 deg.	—	4.70
50 gal. bbls .....	—	4.70
Cologne Spirit .....	—	4.75
Second Hands, bbls .....	4.60	— 4.65
For Export, U.S.P., gal.	.32	— .40
Wood, 95 p.c., bbls., drums gal.	.55	— .56
97 p.c. .....	.57	— .58
Pure, (Methanol) bbls..lb.	.70	— .72
Acetone free .....	.75	— .78
Second Hands, 95-97 p.c. gal.	.52	— .53
Denatured, 5 & 6, bbls., Dr. gal.	.20	— .25
Butyl, Drums .....	.20	— .22
Iso-propyl, crude, bbls. gal.	—	2.25
Refined, 50 gal. bbls., drums gal.	4.00	— 4.60
Aloin, U.S.P., powd..lb.	.85	— .87
Amidopyrine, 10-50 lbs..lb.	4.00	— 4.50
Ammonium, Acetate, cryst..lb.	.35	— .38
Benzoate, cryst., U.S.P..lb.	.85	— .90
Bichromate, C. P. .....	.65	— .70
Bromide, gran., 50 lb. bx..lb.	—	.29
Imported .....	.16	— .18
Carbonate, U.S.P. Eggs .....	.11	— .12
Chloride, U.S.P., bbls..lb.	.37	— .18
Citrate .....	1.00	— 1.05
Hypophosphite .....	1.85	— 1.40
Ichthyolate (as to brand)..lb.	.75	— 3.00
Iodide, bxs .....	4.85	— 4.90
Nitrate, C. P., bbls..lb.	—	.40
Oxalate, Pure .....	.45	— .48
Phosphate (Dibasic) .....	.38	— .40
Monobasic .....	.17	— .18
Salicylate, U.S.P. .....	.53	— .55
Water, Ammonia, (See Heavy Chemicals)		
Amyl Acetate, bulk, drums gal.	1.90	— 2.25
Antimony Chlor. (Sol. butter of Antimony), Bbls. ....	—	.10
Needle Powder, casks .....	.04½	— .05
Antipyrine (50-100 lbs.)..lb.	2.10	— 2.25
Apomorphine Hydrochlor. ¼s. oz.	12.00	— 12.25
Arecoline Hydrobrom. 5 ozs. oz.	14.00	— 15.00
Argols, red, powd..lb.	.07	— .09
Arsenic Red, See Heavy Chemicals		
White, See Heavy Chemicals		
Arsenous Iodide, U.S.P..lb.	—	6.10
Atropine, Alk., U.S.P., 1-oz. oz.	—	9.00
Sulfate, U.S.P., 5-10 ozs. oz.	5.25	— 5.50
Barbital .....	—	1.25
Barium Carb. prec., bbls..lb.	—	.25
Dioxide, kegs .....	.17	— .21
Iodide, bott. ....	5.10	—
Nitrate .....	.06½	— .07
Bay Rum, P. R. Imported	3.17	— 3.20
Denatured Salicy. Acid..gal.	43	— 45
or Tartar Emetic, Barrels	3.50	— 3.60
Denatured, quinine .....	—	1.60
Domestic, synthetic, 50 gal. bbls. ....	1.50	— 1.60
Benzaldehyde (see Aromatic Chemicals)		
Benzonaphthol .....	2.65	— 2.75
Berberine Hdehl., 5 lbs..lb.	—	22.00
Acid Sulfate .....	21.00	— 23.00
Neutral Sulfate .....	21.00	— 23.00
Bismuth Metallic .....	2.10	— 2.20
Ammon. Citrate, U.S.P..lb.	—	5.20
Betanaphthol .....	—	2.70
Citrate, U.S.P. ....	—	2.30
Nitrate .....	—	1.50
Oxychloride .....	—	2.65
Phenolsulfonate .....	2.15	— 2.25
Salicylate .....	—	1.70
Subbenzoate .....	—	2.75
Subcarbonate, U.S.P. ....	—	2.45
For X-ray diagnosis .....	—	2.80
Subgallate .....	—	2.15
Subiodide .....	—	4.10
Subnitrate .....	—	2.15
Cones .....	—	2.15
Second Hands .....	2.00	— 2.10
Subsalicylate .....	—	2.45
Tannate .....	—	2.25
Bismuth Preps. basis 25 lb. lots, boxes.	—	.06
Borax, cryst., powd. 400 lb. bbl..lb.	.05½	— .06
Kegs, 150 lbs. ....	.06	— .06½
Bucine Sulfate (250 ozs.)..oz.	.20	— .25
Bromine, bott. cases, wk..lb.	.23	— .25
Bromoform, 100 lbs..lb.	—	1.45
Bromides, See Potass. Brom., etc.		

## CLASSIFICATION

Items are classified into divisions based upon industrial and trade use and, within these divisions, are arranged alphabetically. The order follows roughly the order of the market reports in the text pages and the running heads at the top of the page serve as a ready index.

Fine Chemicals — medicinal, photographic, CP reagent acids and chemicals, except synthetic aromatics.

Heavy Chemicals — industrial and metallurgical acids and chemicals, except metals, dyestuffs, tanning materials and fertilizers.

Coal-Tar Products—crudes and intermediates.

Oils—the fatty oils of animal, fish, and vegetable origin.

Crude Drugs—the natural botanical products sold through the drug trade, further subdivided according to class.

Essential Oils — include the oleo-resins and are followed by the synthetic aromatic chemicals.

Cadmium Bromide, 100 lbs..lb.	.95	— 1.00
Iodide .....	—	4.20
Metal sticks .....	—	1.00
Caffeine alkaloid, 100 lbs..lb.	3.75	— 4.00
Hydrochloride .....	—	5.00
Hydrobromide .....	—	5.25
Citrate, U.S.P. ....	3.00	— 3.25
Sulfate .....	—	5.75
Calcium Glycerophosphate ..lb.	1.55	— 1.60
Bromide, 100 lbs. ....	—	.40
Hypophosphite .....	—	.65
Iodide .....	—	4.20
Lactate .....	.50	— .52
Phosphate, Precip. ....	.10	— .12
Monobasic .....	.07	— .8
Sulfocarbonate .....	—	.48
Camphor, Am. ref'd bbls. blk. lb.	—	.90
16's in 1-lb. carton .....	—	.95
32's in 1-lb. carton .....	—	.86
Japan refined, 2½ lb. slabs..lb.	.75	— .76
Tablets (as to size) .....	.93	— .96
Chinese refined .....	.75	— .76
Monobromated, 100 lbs..lb.	1.70	— 1.75
Caramel, 50 gal. bbls .....	.60	— .63
Carmine, No. 40, 5 lb. bxs .....	4.50	— 4.60
Casein, Edible, bbls .....	.35	— .40
Technical .....	.14	— .15
Castor Oil, AA, 50 gal. bbls..lb.	.12	— .12½
Cerium Oxalate .....	.40	— .42
Chalk, Precip., light, bbls. lb.	.04	— .05
Heavy .....	.02½	— .04
Drop .....	.03½	— .08½
Charcoal, Powd., bbls .....	.04	— .05
Willow, Powd. ....	.06	— .07
Bone Black, Powd. ....	—	.08
Chinoidin, 500 lb. lots .....	—	.65
Chloral Hydrate, U.S.P., crystals, 25 lb. jars, 100 lb. lots..lb.	—	.75
Chlorosane, 5 lb. bot .....	—	.94
Chloroform, U.S.P. 120 lb. drums .....	—	.30
Second Hands .....	—	.28
Chrysarobin, (See Acid Chrysophanic)		
Cinehonidin, Alk., 100 oz. tin oz.	.70	— .75
Sulfate .....	—	.50
Cinchonine, Alk., 100 oz. tin oz.	.38	— .43
Sulfate .....	—	.25
Cocaine, Alkaloid, 10 oz. oz.	8.00	— 10.00
Hydrochlor., Cryst., Powd.	—	6.00
25 oz. cans .....	—	6.00
Small sizes: ¼s 50c extra, ½s 25c, Singles 7c extra per oz.		
Cocoa Butter, 200 lb. bales..lb.	.27	— .29
Fingers, cakes, 12 lb. bxs..lb.	.35	— .37

**COPPER SALTS**

Acetate  
Ammoniated  
Carbonate  
Chloride  
Chloride and Ammonia  
Nitrate  
Oxide  
Sulphate  
Sulphuret

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## Fine Chemicals

Codeine, Alk., 10 oz. cans...oz.	— 6.10	Ethyl Acetate .....gal.	.93 — 1.05	Iron Citrate, U.S.P., VIII..lb.	— .99
Hydrobromide .....oz.	— 4.90	85 p.c. Ester.....gal.	.62 — .67	and Ammon Citrate, U.S.P..lb.	— .84
Hydrochloride .....oz.	— 5.50	Chloride .....lb.	— .55	Green scales, U.S.P.....lb.	— .84
Nitrate .....oz.	— 3.50	Ethyl Methyl Ketone.....lb.	.12 — .13	Caedylate, 10 lb. bot.....lb.	9.00 —10.00
Phosphate .....oz.	— 4.56	Eucalyptol, U.S.P., See Aromatic Chemicals		Chloride, cryst. (ferric).....lb.	.08½ — .09
Salicylate .....oz.	— 4.55	Formaldehyde, bbls. wks., C/Lb.	.07½ — .08	Liquid, 40 deg. 140 lb cbys..lb.	— .06½
Sulfate .....oz.	— 4.50	Less Carlots, bbls.....lb.	.08½ — .09	Hypophosphite .....lb.	1.50 — 1.60
Small sizes: ¼s 50c extra		Gelatin, silver, 100 lb.cases lb.	.90 — 1.00	Syrup, U.S.P. 1900.....lb.	— .30
¼s 25c, singles 7c extra		Gold Label .....lb.	— —	Iodide .....lb.	— 3.80
Cod Liver Oil, Newf'd.....bbl.	19.00 —20.00	Glycerin		Syrup .....lb.	.65 — .67
Norwegian, 30 gal. bbls...bbl.	22.00 —25.00	C.P. drums, bbls.....lb.	.14½ — .15	Oxalate, scales .....lb.	.80 — .82
Colchicine, Alkaloid, 1 oz....oz.	— 25.00	Cans, 50 lbs. ....lb.	.15½ — .16	and Ammonium, cryst..lb.	.45 — .50
Salicylate, 1 oz.....oz.	— 35.00	Dynamite, drums .....lb.	.13 — .13½	and Potassium .....lb.	.47 — .48
Collodion, U.S.P. ....lb.	— .25	Saponification, loose .....lb.	.00 — .10	and Sodium, cryst.....lb.	.40 — .42
Flexible, U.S.P. ....lb.	— .29	Soap Lye, loose .....lb.	.08 — .09	Phosphate, U.S.P. ....lb.	— .39
Corn Syrup .....100 lbs.	2.52 — 2.82	Guaiacol, liquid, (25 lbs.)...lb.	2.75 — 3.00	Pyrophosphate, U.S.P. ....lb.	— .94
Corrosive Sublimate, see Mercury		Benzoate (1 lb.).....lb.	— 18.00	Metallic, Reduced .....lb.	— .60
Cotton Solution, 5 gal. cans..lb.	.35 — .40	Carbonate (50 lbs.).....lb.	3.25 — 3.75	Lanolin, See Adeps Lanae	
Coumarin, refined, see Aromatic Chemicals		Haarlem Oil, dom., cases.gross	— 3.50	Lead Iodide, U.S.P., VIII..lb.	— 2.95
Cream Tartar, U.S.P., bbls..lb.	— 26½	Imported, cases .....gross	— 5.40	Licorice, U.S.P., Mass.....lb.	— .25
Imported, U.S.P., 224 lb.bbls..lb.	.23 — .24	Hexamethylenetetramine ....lb.	.67 — .70	Powdered .....lb.	— .40
Creosote, U.S.P., cbys.....lb.	.40 — .45	Homatropine, Hydrom.5 ozs.oz.	— 15.00	Sticks .....lb.	— .50
Carbonate, (25 lbs.).....lb.	1.60 — 1.70	Hydrastine, Alkaloid (8 ozs.)oz.	17.00 — 18.00	Comp. Powder .....lb.	.11 — .12
Cresol, U.S.P. ....lb.	.13 — .16	Hydrochloride .....oz.	17.50 — 18.00	Lithium Carbonate, kegs....lb.	1.40 — 1.50
Digitalin, pure, (5-10 ozs.)oz.	6.75 — 7.00	Sulfate, 5 ozs.....oz.	— 19.50	Citrate .....lb.	1.60 — 1.70
Dionin, See Morph. Ethyl Hydrochl.		Hydrastinine Hdchl. (1 oz.)oz.	— 60.00	Magnesium Carb. U.S.P.bbls..lb.	.12 — .13
Dover's Powder, U.S.P.....lb.	— 2.20	Hydrogen Peroxide, U.S.P.,		Technical, bbls. ....lb.	.06 — .07
Duboisine Sulfate, (1 oz.)...oz.	— 60.00	10 gr. lots		Blocks cases, 1, 2, 4 ozs..lb.	.18 — .21
Emetine Alk., 15 gr. vials..ea.	— 1.00	8-oz. bottles .....gross	12.00 — 12.25	Glycerophosphate .....lb.	— 3.20
Hydrochloride, (1 oz.)...oz.	16.00 — 17.50	Hydroquinone, 100 lbs. ....lb.	.90 — 1.00	Hypophosphite .....lb.	— 1.20
Epsom Salt, U.S.P. (5 bbls.)cwt.	2.50 — 2.75	Hyosclne Hydrobrom., 5 ozs.oz.	17.00 — 17.50	Oxide .....lb.	— .53
Technical .....cwt.	1.00 — 1.85	Hyoscyamine Alkaloid, (1 oz.)oz.	— 21.00	Peroxide, cans .....lb.	2.15
Imported, U.S.P. (5 bbls.)cwt.	1.75 — 1.85	Amorphous Alk. (1 oz.)...oz.	— 60.00	Salicylate, 100 lbs. ....lb.	— .62
Eserine Sulfate, (1 oz.)...oz.	10.00 — 14.50	Hydbrom. (1 oz.)...oz.	— 50.00	Sulfate, (See Epsom Salt)	
Salicylate .....oz.	— 18.00	Sulfate .....oz.	18.00 — 19.00	Malt Syrup kegs .....lb.	— .10
Alkaloid .....oz.	— 30.00	Iodides, See Potass. Iodide, etc.		Manganese Glycerophos. ....lb.	— 2.90
Ether, Nitrous .....lb.	— .97	Iodine, Resublimed, 5 lb. jar..lb.	— 4.20	Hypophosphite, U.S.P., VIII..lb.	1.85 — 1.90
Ether, U.S.P., 100 lb. drums..lb.	— .14	Tincture, U.S.P., 50 gal.		Iodide .....lb.	— 6.25
Washed, bulk .....lb.	— .31	bbl. ....gal.	3.95 — 4.00	Sulfate, Crystals .....lb.	— .30
Anaesthesia, 100 lb. drums lb.	— .17	Iodoform, powdered, 10 lbs..lb.	— 5.25		
Motor Ether, 1 lb. cans....lb.	— .26	Crystals .....lb.	— 6.25		



## Acetic Acid

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## Fine Chemicals

Menthol, 60 lb. cases.....lb.	5.50	— 5.75	Paraformaldehyde, 100 lbs.....lb.	— .53	Quinine Sulf., 100-oz. tins...oz.	— .60
Mercury, 75 lb. flasks.....ea.	55.00	—56.00	Pepsin Powd., U.S.P.....lb.	— 2.50	1-oz. tins, 100 oz. lots...oz.	— .68
Bisulfate.....lb.	— .55		Petrolatum, green, 350 bbls...lb.	.0294	Imported, Java, 100 ozs...oz.	— .60
Blue Mass.....lb.	— .56		Dark Amber.....lb.	— .04	Imported, Jap., 100 oz.tins.lb.	— .60
Powdered.....lb.	— .58		Light Amber.....lb.	— .04½	Quinine Bisulfate, 100 oz. tinsoz.	— .60
Blue Oint., 30 p.c.....lb.	— .56		Cream White.....lb.	— .07	Alkaloid.....oz.	— .79
31-3 p.c.....lb.	— .59		Lily White.....lb.	— .09	Acetate.....oz.	— .88
50 p.c.....lb.	— .72		Snow White.....lb.	— .12½	Arsenate.....oz.	— .88
Clitrene Ointment.....lb.	— .48		Phenolphthalein, 100 lbs.....lb.	1.40	Citrate.....oz.	— .88
Calomel, Amer.....lb.	— .94		Phosphorus, yellow.....lb.	.25	Dihydrochloride.....oz.	— .88
Corrosive Sublimate, cryst.lb.	— .91		Pilocarpine, Hydchlor. 25 ozs.oz.	9.75	Dihydrobromide.....oz.	— .88
Powdered Granular.....lb.	— .76		Alkaloid, 15 gr. vial.....ea.	— 1.25	Dicarbonate.....oz.	— 2.00
Iodide, Green.....lb.	— 3.31		Nitrate.....oz.	9.75	Ethyl Carbonate.....oz.	— 1.10
Red.....lb.	— 3.41		Piperazine Hydrate.....lb.	— 13.50	Ferrocyanide.....oz.	— .88
Yellow.....lb.	— 3.31		Plaster Paris, true dental...bbl.	4.35	Formate.....oz.	— .88
Red Precipitate.....lb.	— 1.03		Podophyllin.....lb.	3.75	Glycerophosphate.....oz.	— .88
Powdered.....lb.	— 1.13		Potassium acetate.....lb.	.33	Iodide.....oz.	— .88
White Precipitate.....lb.	— 1.18		Bicarbonate, U.S.P.....lb.	.08	Hydrobromide.....oz.	— .79
Powdered.....lb.	— 1.23		Bisulfate.....lb.	— .40	Hydrochloride.....oz.	— .74
With chalk.....lb.	— .56		Bromate, 100 lbs.....lb.	— .23	Japanese.....oz.	— .72
Mercurial preps. basis 50 lb.			Bromide Crystals, 100 lbs...lb.	— .23	Hydrochlor. & Urea.....oz.	— .88
lots, in boxes or tins.			Granulated.....lb.	— .23	Hypophosphite.....oz.	— .88
Methyl Acetone, drums.....gal.	.57	— .60	Imported, U.S.P.....lb.	.15	Lactate.....oz.	— .88
Methyl salicylate, see Aromatic			Carbonate, U.S.P.....lb.	.12	Phenolsulfonate.....oz.	— .88
Methylene Blue, medicinal...lb.	3.00	— 3.50	Caustic, U.S.P. (by alcohol)lb.	— .45	Phosphate.....oz.	— .79
Milk, powdered.....lb.	.14	— .15	U.S.P. purified.....lb.	— .30	Salicylate.....oz.	— .79
Mineral Oil, white.....gal.	.75	— 1.25	Chlorate, Imp., Powd.....lb.	.06	Tannate.....oz.	— .60
Morphine, Acet., 10-oz. in 5s.oz.	— 4.90		Citrate, bulk, U.S.P.....lb.	— .65	Tartrate.....oz.	— .88
Hydrobromide, 10-oz. in 5s.oz.	— 4.90		Glycerophosphate, 75 p.c. lb.	1.65	Valerate.....oz.	— .98
Hydrochloride, 10-oz. in 5s.oz.	— 4.90		Guaiacol Sulf. (10-25 lbs.)lb.	2.50	Small sizes: single ounce	
Sulfate, 10-oz. in 5s.....oz.	— 4.90		Hypophosphite, bulk.....lb.	— .85	tins 8c extra, 5 oz. 3c	
Diacetyl, Alk., 10 oz., ¼s...oz.	— 8.40		Iodide, bulk.....lb.	3.30	extra per oz.	
Diacetyl Hydcl., 10 oz., ¼s...oz.	— 7.60		Second Hands.....lb.	3.15	Quinidine Alk., 100 oz. tins...oz.	.70 — .75
Ethyl Hydcl., 10 oz., ¼s...oz.	— 8.95		Lactophosphate.....oz.	— .90	Sulfate, 100 oz. tins.....oz.	— .50
Small sizes: ¼s 50c extra,			Nitrate, see Saltpetre		Resorcinol, crystals, U.S.P...lb.	1.75 — 1.90
¼s 25c, single ounces 7c			Oxalate, Neutral.....lb.	.40	Technical, See Intermediates	
extra per oz.			Permanganate, U.S.P., 220			
Opium cases, U.S.P.....lb.	— 6.00		lb. dr.....lb.	.13		
Granular.....lb.	— 7.00		Salicylate.....lb.	— .75		
Powdered, U.S.P.....lb.	— 7.00		Sulfate, C.P.....lb.	— .35		
Oxgall, pure, U.S.P.....lb.	— 1.50		Tartrate.....lb.	— .60		
Pancreatin.....lb.	1.50	— 1.60	Pumice Stone, lump.....lb.	.04		
Papain.....lb.	2.25	— 2.30	Powdered.....lb.	.03		
			Pyridin.....gal.	— 1.75		

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Rochelle Salts, crystals.....lb.	— .21	Sod. Hypophosphite, U.S.P.....lb.	— .75	Sugar of Milk, bbls.....lb.	.20 — .21
Imported, U.S.P. ....lb.	.16½ — .17	Iodide, 25 lb. box.....lb.	3.80 — 3.85	Sulfonal, 100-oz. lots.....oz.	— .37
Rosewater, triple .....gal.	— 1.25	Nitrate, U.S.P., Bbls.....lb.	.04½ — .05½	Sulfonethylethane, U.S.P.....lb.	— 5.50
Saccharin, U.S.P., 100 lbs.....lb.	1.90 — 1.95	Oxalate, Neutral .....lb.	.35 — .40	Sulfonmethane, U.S.P. ....lb.	— 4.50
Resale .....lb.	1.75 — 1.90	Peroxide, tins .....lb.	.25 — .27	Sulfur Iodide, U.S.P. ....lb.	— 3.95
Salicin, 25 lbs. ....lb.	4.25 — 4.50	Phosphate, U.S.P., gran.....lb.	.07 — .07½	Sulfur, roll, bbls.....lb.	2.15 — 2.70
Salol, U.S.P., bulk.....lb.	— .80	Recryst. ....lb.	— .13	Flour, 100 p.c. pure.....100 lbs.	2.50 — 3.15
Saltpetre, Double ref. bbls.....lb.	.07½ — .09½	Pyrophosphate .....lb.	— .14	Flowers, 100 p.c. pure.....100 lbs.	3.00 — 3.65
Santonin, cryst., (1-10 lbs) lb.	167.00 — 170.00	Salicylate, U.S.P., 100 lbs.....lb.	— .32	Precip., U.S.P. ....lb.	.18 — .19
Powdered .....lb.	168.50 — 171.50	Resale .....lb.	— .28	Lac Sulfur .....lb.	.08 — .10
Saponin (Ex Quillaja) (100 lbs.)	— 1.55	Sulfate (Glauber's Salt) cwt.	1.25 — 1.35	Tartar Emetic, tech.....lb.	.29 — .31
Seidlitz Mixture, bbls.....lb.	— .17	Needle Crystals .....cwt.	1.75 — 1.80	U.S.P. ....lb.	.36 — .37
Silver Nitrate, 500 oz. lots.....oz.	.47½ — .48	Sulfocarbonate .....lb.	.25 — .26	Talcum, Amer., bags.....100 lbs.	1.00 — 1.25
Nucleinate, 100 ozs.....oz.	— .40	Spartein Sulfate, (25 ozs.).....oz.	1.25 — 1.35	Purified .....100 lbs.	2.50 — 3.00
Proteinates .....oz.	— .42	Strontium Brom. 50 lb. bx.....lb.	— .29	Terpin Hydrate .....lb.	.58 — .61
Colloidal .....oz.	— 1.60	Carbonate, pure .....lb.	— .28	Theobromine Alkaloid .....lb.	5.50 — 6.00
Soap, Castile, white pure.....lb.	.20 — .25	Iodide, bulk .....lb.	— 3.50	Thymol, crystals, U.S.P.....lb.	4.10 — 4.25
Powd., U.S.P., bbls.....lb.	.30 — .32	Nitrate, Kegs .....lb.	.12½ — .13	Iodide, U.S.P., bulk.....lb.	7.75 — 8.00
Green, U.S.P. ....lb.	.08 — .08½	Salicylate, 100 lbs.....lb.	— .60	Tin bichloride see Heavy Chemicals	
Sodium Acetate, U.S.P., gran.....lb.	.12 — .13	Strychnine Alkd., cryst., 100 oz. tins	— 1.05	Oxide, 500 lb. bbls.....lb.	.37 — .38
Benzoate, gran., U.S.P.....lb.	.50 — .60	Alkaloid, Powd. ....oz.	— .95	Crystals .....lb.	.28½ — .30
Bicarb., U.S.P., bbls.....cwt.	1.80 — 2.25	Acetate .....oz.	— .95	Toluene, See Coal Tar Crudes	
Bromide, U.S.P., 50 lb. bx.....lb.	— .20	Glycerophosphate .....oz.	— .95	Tribromphenol .....lb.	— .85
Imported, U.S.P. ....lb.	.15 — .16	Hydrobromide .....oz.	— .95	Trional .....oz.	— .45
Cacodylate, 25-50 lbs.....lb.	— 4.60	Hydrochloride .....oz.	— .95	Urea, Imp. Pharmaceutical.....lb.	— .40
Caustic, U.S.P., See Sod. Hydroxide		Hypophosphite .....oz.	— 1.05	Veratrine Sulfate, (1 oz.).....oz.	— 2.50
Chlorate, U.S.P., 8th Rev.		Nitrate .....oz.	— .95	Hydrochloride .....oz.	— 2.50
Crystals, c.b., 10 lbs.....lb.	.13 — .14	Phosphate .....oz.	— .95	Witch Hazel, Ext., dbl dist., 50 gal. bbls.....gal.	1.20 — 1.25
Granular, c.b., 10 lbs.....lb.	.16 — .17	Sulfate, crystals, powd.....oz.	— .76	Yohimbin Hydchl., (1 oz.).....oz.	— 12.50
Chloride, C. P., bbls.....lb.	— .06	Saccharinate .....oz.	— 2.05	Zinc Carbonate, U.S.P., precip.....lb.	— .37
Citrate, U.S.P., Cryst. VIII.....lb.	— .60	Strychnine preps. basis 100		Chloride, U.S.P. ....lb.	— .35
VIII .....lb.	— .60	Small sizes: ¼s 50c extra, ¼s 25c single ounces 7c extra per oz.		Nitrate .....lb.	— .42
Granular, U.S.P., gran. IX.....lb.	— .73			Iodide, bulk .....lb.	— 4.50
Cyanide 996-98, see Heavy Chemicals				Oxide, U.S.P., bbls.....lb.	.15 — .16
Glycerophosphate .....lb.	1.70 — 1.75			Stearate .....lb.	.20 — .25
Solution U.S.P. cbys. ....lb.	— 1.15			Sulfate, U.S.P. ....lb.	— .66
Solution 50% cbys .....lb.	— 1.00				
Hydroxide, U.S.P. ....lb.	— .18				

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28 p.c. bbls.....100 lbs.	2.25 — 2.63½	
56 p.c., bbls.....100 lbs.	4.75 — 5.25	
70 p.c., bbls.....100 lbs.	5.96 — 6.58	
80 p.c., bbls., Com'l.100 lbs.	6.50 — 7.57	
80 p.c., bbls., pure.100 lbs.	7.25 — 9.34	
Glacial, bbls.....100 lbs.	8.00 — 11.35	
Chlorosulfonic, 93-95 p.c....lb.	.15 — .46	
Hydrobromic, 10 carboys and single carboys, spot.		
Commercial, 48 p.c.....lb.	.35 — .37	
Pure, 40 p.c.....lb.	— .40	
Hydrofluoric, barrels and carboys, carlots and less.		
30 p.c. bbls.....lb.	— .07	
48 p.c. in carboys.....lb.	.10 — .11	
52 p.c. in carboys.....lb.	.11 — .12	
60 p.c. in carboys.....lb.	.14 — .14½	
White Acid, wks., cbys..lb.	.25 — .26	
Hydrofluosilicic 35 p.c.....lb.	.10 — .12	
Lactic, 22 p.c., dark.....lb.	.04 — .04½	
22 p.c., light.....lb.	.05½ — .06	
44 p.c., light.....lb.	.11 — .13	
44 p.c., dark.....lb.	.09½ — .10	
66 p.c. ....lb.	— .16	
80 p.c., Imported.....lb.	.15 — .16	
MIXED (Sulfuric-Nitric)		
Drums, wks., per N unit	.07½ — .08	
per S unit.....unit	.01 — .01½	
Tank cars,wks.,per N unit	.07½ — .08	
per S unit.....unit	.000 — .01	
MURIATIC (Iron-free)		
20° Cbys., c/l, wks....cwt.	— 1.25	
Tank cars, wks.,net ton 20.00	— 25.00	

## ACIDS

MURIATIC (Commercial)		
20 deg. Cbys., 1c/l wks.cwt.	1.35 — 1.75	
Cbys., c/l wks.....cwt.	1.10 — 1.50	
Tank cars, wks.....cwt.	1.00 — 1.10	
18° 140lb. cbys.,c/l wks.cwt.	.85 — 1.25	
22° 140lb. cbys.,c/l wks.cwt.	1.40 — 2.00	
NITRIC		
36° Cbys., single, wks.cwt.	5.50 — 6.15	
Cbys., c/l, works.....cwt.	4.75 — 5.25	
38° Cbys., single, wks.cwt.	5.65 — 6.55	
Cbys., c/l, wks.....cwt.	5.00 — 5.65	
40° Cbys., single, wks.cwt.	6.50 — 7.15	
Cbys., c/l, wks.....cwt.	5.25 — 6.25	
42° Cbys., single, wks.cwt.	7.25 — 7.90	
Cbys., c/l, wks.....cwt.	5.50 — 7.00	
Oxalic, 10 bbls., wks.....lb.	— .14	
Spot, bbls.....lb.	— .14½	
Phosphoric, 50 p.c., tech...lb.	.08 — .09	
Syrupy, 85-88 p.c.....lb.	.16 — .19	
Pyroligneous, Tech.....gal.	.10 — .10½	
SULFURIC		
66° cbys., 1c/l, wks....cwt.	— 1.40	
Cbys., c/l, wks.....cwt.	— 1.25	
Drums, 1c/l, wks.....cwt.	— 1.10	
Drums, c/l, wks.....cwt.	— 1.00	
Tank cars, wks....net ton	14.00 — 16.00	
60° Drums, 1c/l, wks.cwt.	.70 — .90	
Drums, cl., wks.....cwt.	.60 — .80	
Tank cars, wks....net ton	9.00 — 11.00	
Oleum, 20 p.c., drums,		
1c/l, wks. ....cwt.	1.25 — 1.50	
Drums, c/l, wks.....cwt.	1.10 — 1.25	
Tank cars, wks....net ton	18.00 — 19.00	
Contract cars, wks....ton	17.00 — 18.00	
Oleum, 40 p.c., drums,		
1c/l, wks. ....net ton	— 35.00	
Oleum, 60 p.c., drums,		
1c/l, wks. ....net ton	— 65.00	
Sulfurous com. cylinders...lb.	.08 — .09	
Tannic, Tech. barrels.....lb.	.40 — .55	
Tungstic .....lb.	— 1.00	

Acetone, C.P.Drums,C/L & L.lb.	.08 — .11	
Acetic Anhydride, 85 p.c.drs.lb.	.37 — .40	
Acetyl Chloride, Redistilled.lb.	— .40	
Alums, carlots in barrels, and 10 barrels, spot.		
Ammonia, lump .....100 lbs.	3.25 — 3.50	
Imported .....lb.	— —	
Ground .....100 lbs.	3.40 — 3.65	
Powdered .....100 lbs.	3.50 — 3.90	
Chrome .....lb.	.06½ — .07	
Potash lump .....lb.	4.25 — 4.50	
Imported .....lb.	.03 — .03½	
Ground .....lb.	4.35 — 4.60	
Powdered .....lb.	4.50 — 4.75	
Chrome .....lb.	.06½ — .07	
Soda, Ground .....100 lbs.	3.50 — 4.00	
Aluminum chloride, carboys.lb.	.04 — .05	
Anhydrous, drums .....lb.	.35 — .40	
SULFATE		
Iron-free, Bags, c/l, contract, wks. ....cwt.	— 2.25	
Bags, c/l, pmpt, wks.cwt.	— 2.35	
Com'l., (½ p.c. iron), bgs.		
c/l cont., wks.East.cwt.	— 1.40	
Bags, c/l, pmpt,wks.E.cwt.	— 1.50	
Bags, c/l,pmpt,wks.W.cwt.	— 1.35	
Bbls., c/l,cont.wks.E.cwt.	— 1.55	
Bulk, c/l., cont.wks.E.cwt.	— 1.35	
Aluminum hydrate light.....lb.	.19 — .20	
Oxide c-l bbls. wks.....lb.	— .06½	
Ammonia, Anhydrous, cyl...lb.	— .30	
Ammonia Water, Drums and carboys.		
26 deg. ....lb.	.07½ — .09½	
20 deg. ....lb.	.06 — .08	
18 deg. ....lb.	.05½ — .07½	
16 deg. ....lb.	.05 — .07	
Ammonium Bifluoride, bbls..lb.	.22 — .28	
Imported .....lb.	— .22	
Carbonate, bbls. ....lb.	.06½ — .07	
Lactate .....lb.	.15 — .16	
Nitrate .....lb.	.06½ — .08½	
Persulfate, cases .....lb.	— .50	



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Am. Sal Ammoniac, barrels, cars and less, spot.		Cal. Chlor. Fl'd, f.o.b. N.Y. ton	— 30.50	Lead Oxide, Litharge, Amer. pd.	.07½ — .07¾
Gray, rough .....	.07½ — .08½	Anhydrous single drums lb.	.12 — .13	Red, American .....	.08 — .08½
Imported .....	.08 — .08½	Lactate .....	— .13½	Sulfate, basic white .....	.06¾ — .07
Granulated, white .....	.07¾ — .08	Nitrate, bags .....	— 40.00	White, Basic Carb., Amer. dry	.07¾ — .07¾
Imported .....	.06½ — .06¾	Chlorine, liq., C/L cyl., wks. lb.	.05 — .05½	Lithopone, bbls C/L & LC/L lb.	.06 — .06½
Lump, casks, bbls. ....	.15 — .16	Less C/L .....	.06 — .08	Imported .....	.05½ — .05¾
Sulfate, dbl. bags, f.a.s. 100 lbs.	3.50 — 3.60	Carbon bisulfide, C/L & less lb.	.06 — .07	Lime, hydrate .....	.01 — .01½
*Dom., Bulk, wks. .... 100 lbs.	2.90 — 3.00	Carbon black, as to quality lb.	.10½ — .18	Acetate .....	100 lbs. — 1.75
Antimony chloride, liq. cys. lb.	.12 — .14	Carbon tetrachlor., C/L & Less lb.	.09½ — .10½	Nitrate .....	ton — 40.00
Anhydrous, drums .....	.35 — .40	Cobalt Oxide .....	2.00 — 2.25	Sulfur, Powd. ....	.10½ — .12
Oxide, bbls. ....	.06¾ — .06¾	Copper Carbonate .....	— .18	Magnesite .....	ton — 30.00
Sulfide, Crimson .....	.35 — .40	Cyanide .....	.58 — .60	Magnesium Sulfate, Technical, bbls. carlots and 10 bbls.	
Golden, No. 1 .....	.16 — .20	Oxide .....	.15 — .15½	Domestic .....	100 lbs. 1.85 — 2.00
Vermillion .....	— .40	Subacetate (Verdigris) ..	.35 — .37	Imported .....	lb. .90 — 1.00
Tartrolactate .....	— .45	Sulfate LC/L spot. .... 100 lbs.	5.95 — 6.05	Carbonate, tech. ....	lb. .06 — .07
Arsenic, white, kegs. ....	.07½ — .07½	C/L delivered .....	6.00 — 6.10	Chloride, fused, f.o.b. wks. ton	— 30.00
Red, 50 to 200 kg. drums. lb.	.12½ — .13	Tartrate (verdigris substitute) .....	— .30	Imported, fused & gran. ....	ton 32.00 — 34.00
Metal .....	— .17	Copperas, wks., Bulk .....	17.00 — 20.00	Flaked, f.o.b. wks. ....	ton — 32.00
Barium, chloride, bbls. ....	— 100.00	Ferric Chloride, crys. ....	— .08½	Fluosilicate, 30 p.c. soln. 100 lbs.	8.00 — 10.00
Imported, casks .....	— 100.00	Liquid, 40 deg. ....	— .06½	Manganese Chloride .....	lb. .09½ — .10½
Binoxide .....	.20 — .22	Ferrous Chloride, crys. ....	.06 — .06½	Dioxide, 80-84 p.c., 10 bbls. ton	80.00 — 85.00
Imported .....	.16 — .17	Sulfide .....	4.00 — 4.50	85-90 p.c. ....	ton 85.00 — 90.00
Carbonate, bbls., c/l & less ton	75.00 — 85.00	Flake White, bbls. ....	.13 — .13½	Sulfate, bbls. ....	lb. .10 — .11
Imported .....	65.00 — 70.00	Fluorspar, 95 p.c. ex-dock. ....	— 25.00	Nickel oxide, bbls. ....	lb. .40 — .42
Nitrate .....	.09½ — .10½	96 p.c. ex-dock. ....	— 30.00	Salts, single .....	lb. .08 — .09
Imported .....	.07 — .07½	98 p.c. ex-dock. ....	— 35.00	double .....	lb. .08 — .09
Barytes, floated, white, bgs. ton	33.50 — 35.00	Fuller's Earth, f.o.b. mines. ....	15.00 — 17.00	Nitre Cake, bulk wks., C/L. ton	4.00 — 4.50
Blanc Fixe, ....	80.00 — 85.00	Imported, bags .....	85.00 — 40.00	Orange Mineral .....	lb. .11¾ — .14
Imported .....	— 85.00	Fusel Oil, crude, drums. .... gal.	1.35 — 1.65	Paris Green .....	lb. .18 — .20
Bleaching Powder, Drums, carlots.	— 85.00	Refined, 10 drum lots. .... gal.	2.15 — 2.40	Paris White .....	ton 15.00 — 16.00
F.o.b. wks., Contract. .... 100 lbs.	— 1.60	Kieselguhr bgs., C/L & less. .... 100 lbs.	1.75 — 2.00	Phosphorus red 110 lb. cases lb.	— .50
Prompt .....	1.60 — 1.75	Lead Acetate, Barrels, freight allowed.		Imported .....	lb. .25 — .27
Export, f.a.s. .... 100 lbs.	— 1.75	White cryst. ....	.10½ — .11	Yellow, 110 lb. cases. ....	lb. .25 — .35
Imported, Drums and barrels, spot .....	— 1.75	White, broken .....	.10 — .10½	Imported .....	lb. — .28
Bromine, bott. cases wks. .... lb.	.23 — .25	Granulated .....	.10½ — .10¾	Oxychloride .....	lb. .35 — .37
Calcium Acetate, bags. .... 100 lbs.	— 1.75	Brown, broken .....	.09½ — .09¾	Sesquisulfide, 105 lb. cases. lb.	— .42½
Arsenate, bbls. ....	.10 — .13	Arsenate, powdered, bbls. ....	.11½ — .13	Trichloride .....	lb. .35 — .40
Carbide, drums .....	.04½ — .05	Paste, bbls. ....	.09 — .10	Plaster of Paris, tech. .... bbl.	4.25 — 4.50
Carbonate, bags .....	1.00 — 1.35	Nitrate .....	— .15		
Chloride, solid, f.o.b. N.Y. ton	— 24.50				
Imported .....	— 30.00				
Granulated, f.o.b. N.Y. .... ton	— 30.50				

**Victor Chemical Works**  
Chicago  
St. Louis New York Nashville

Manufacturers  
of

**PHOSPHATE OF SODA  
TRI SODIUM PHOSPHATE**

EPSOM SALTS

Technical U. S. P.

Ammonium Phosphate  
Baking Powder Chemicals

ACIDS—

Oxalic— Formic—  
(99.5% Pure) (All strengths)  
Phosphoric



**SULPHUR**

SUBLIMED  
ROLL BRIMSTONE  
FLOWERS  
PRECIPITATED 100%  
LAC SULPHUR

**BATTELLE & RENWICK**

Estb. 1840

Incp. 1902

80 Maiden Lane, New York, N. Y.



## Heavy Chemicals

Potash, Caustic, drums, car-		
lots and less, F.o.b. N. Y.		
Domestic 88-92 p.c.....lb.	.08	— .10
Imported .....	.05¼	— .06
Domestic, 70-75 p.c.....lb.	—	—
Potassium Bichromate, Barrels,		
carlots and less, spot.		
Crystals .....	.10	— .10¼
Powdered .....	.13	— .13¼
Binoxalate, tech.crys.bbils.lb.	.35	— .38
Carbonate, 80-85 p.c., bbils.lb.	.04¼	— .05
Hydrated .....	.06	— .06¼
90-95 p.c. ....	.05¼	— .06
96-98 p.c. ....	.06¼	— .08
Chlorate, Carlots and less		
in 112 lb. kegs		
Crystals, American .....	.08	— .10
Imported .....	—	— .06¼
Powdered, American .....	.08	— .10
Imported .....	—	— .06¼
Pyrotechnic, 200 mesh, imp.lb.	.07	— .07¼
Muriate, basis 80 p.c., bgs. unit	.60	— .65
Metabisulfite .....	.28	— .25
Perchlorate, 10 bbils. & less. lb.	.12	— .14
Permanganate, Com'l., bbils. lb.	.14	— .16
Imported .....	.14	— .16
U.S.P. See Fine Chemicals		
Potass, Prussiate, red.....lb.	—	— .85
Yellow, casks .....	.31	— .32
Sulfate .....	—	— 1.00
Titanium Oxalate .....	—	— .50
Salt, tech. ....	12.00	— 15.00
Salt Cake, Glassmaker's, wks.		
bulk C/L .....	20.00	— 21.00
Saltpetre, bbils. C/L & less. lb.	.07¼	— .09¼
Imported .....	.06¼	— .07

Note: Prices on soda alkalies are based on actual percentages and not N. Y. & L. test.

Soda Ash, 58 p.c. light, bgs.,		
resale spot flat.....100 lbs.	1.80	— 2.10
Contract, Basis 48 p.c. carlots		
wks., Bags .....	—	— 1.20
Prompt and spot, Basis 48 p.c.		
carlots, wks., bags.....100 lbs.	1.25	— 1.30
Soda Ash, 58 p.c. dense, bgs.,		
resale, spot flat.....100 lbs.	1.90	— 2.00
Contract, Basis 48 p.c. carlots		
wks., Bags .....	—	— 1.25
Prompt and spot, Basis 48 p.c.		
carlots, wks., bags.....100 lbs.	1.30	— 1.35
Soda, Caustic, 76 p.c. solid, re-		
sale spot, flat.....100 lbs.	3.85	— 3.90
Contract, Basis 60 p.c., wks.		
carlots .....	—	— 2.50
Prompt and spot, Basis 60		
p.c. wks., carlots.....100 lbs.	2.57½	— 2.60
Contract 60 p.c. low grade		
cars wks. flat.....100 lbs.	—	— 2.65
Ground and flake, 76 p.c. wks.,		
prompt and spot, carlots,		
drums, flat.....100 lbs.	—	— 3.72½
Contract, 76 p.c. wks., car-		
lots, drums, flat.....100 lbs.	—	— 3.65
Sodium Acetate, bbils.....lb.	.04	— .05
Aluminum Sulfate, bbils.100 lbs.	3.50	— 4.00
Bicarbonate, bbils.&kgs.100 lbs.	1.80	— 2.25
Bichromate, bbils. C/L &		
LC/L .....	.07¼	— .07¾
Bisulfite, Powd. ....	.04¼	— .04¾
Solution 32-40 deg.....100 lbs.	1.35	— 2.00
Carbonate Sal. bbils.....100 lbs.	1.65	— 1.90
Chlorate, 10 bbils.....lb.	—	— .06¼
Imported .....	—	— .06
Chloride, tech. ....	12.00	— 15.00
Cyanide, 96-98 p.c., bbils.....lb.	.25	— .27
73-76 p.c. ....	.22½	— .24
*Imported 120 p.c.....lb.	.23	— .23½
*128 p.c. ....	.25	— .26

Sodium Fluoride, bbils.....lb.	—	— .10
Imported .....	.09¼	— .10
Hydrosulfite .....	.30	— .32
Hyposulfite, Barrels and kegs,		
carlots.		
Crystals .....	100 lbs.	3.10 — 3.35
Granulated .....	100 lbs.	3.70 — 3.95
Nitrate, crude, bags, C/L 100 lbs.	2.65	— 2.75
Double refined, Gran.bbils.lb.	.04¼	— .04¾
Nitrite, bbils, wks.....lb.	—	— .09
Spot bbils. ....	—	— .09¼
Imported, bbils. ....	.08¼	— .09¼
Perborate .....	—	— .25
Imported .....	—	— .20
Peroxide .....	.25	— .37
Phosphate (tri) .....	.05¼	— .06
di-Sodium, U.S.P., gran. lb.	.07	— .08
Technical .....	.03¼	— .04¼
Mono-Sodium, ref. ....	.25	— .27
Prussiate, Yellow .....	.23½	— .24½
Silicate, 60 deg. drums &		
carboys .....	100 lbs.	3.00 — 3.50
40 deg. tanks & clys.100 lbs.	.95	— 1.75
Silicofluoride, bbils.....lb.	.08¼	— .09
Sulfate, GI'b salt. bbils. 100 lbs.	1.25	— 1.80
Imported, bags .....	100 lbs.	.70 — .80
Sulfide, 60 p.c., fused solid		
drums .....	—	— .05
Imported .....	—	— .04
Broken .....	.05	— .05¼
Imported .....	.04¼	— .04½
30 p.c. crystals .....	.03¼	— .03¾
Sulfite, Crystals .....	.03¼	— .03¾
Dessicated .....	.09½	— .10½
Sulfocyanide, bbils. ....	.45	— .47
Thiocyanate .....	.45	— .47
Tungstate, crys. ....	.80	— .85
Dessicated .....	.70	— .75
Strontium Nitrate, bbils.....lb.	.12	— .14
Imported .....	.09¼	— .10
Carbonate imp. ....	.10	— .15
Sulfur Chloride, red, drums. lb.	.05	— .06
Yellow, drums .....	.04¼	— .05
Sulfur Dioxide, liq. cyl.....lb.	.08	— .08¼

# THE CLEVELAND-CLIFFS IRON CO.

KIRBY BUILDING, CLEVELAND, O.

PRODUCERS OF

Wood Alcohol  
Acetic Acid  
Formaldehyde  
Pure Acetone

Methyl Acetone  
Sulphuric Acid  
Sodium Acetate  
Iron Liquor

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New York  
Cincinnati

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Newark  
Brooklyn

Marquette  
Antrim  
Chicago

Detroit  
Minneapolis  
Gladstone

## Coal-Tar Products

Sulfur, crude ex dock C/L.....ton	18.00	—20.00	Acid Picramic .....	lb.	.65	— .70	Diphenylamine .....	lb.	.58	— .60
Flour Com'l., bbls.....100 lbs.	1.70	— 2.00	Acid Pieric .....	lb.	.20	— .40	Diphenyloxide .....	lb.	.75	— .80
Flowers, 100 p.c. bbls.....100 lbs.	3.00	— 3.65	Acid Salicylic, tech.....	lb.	.20	— .22	Ethyl Benzyl Aniline.....	lb.	—	1.40
Sulfuryl Chloride, drums.....lb.	—	.75	Acid Sulfanilic, tech.....	lb.	.22	— .23	Ethyl Bromide .....	lb.	—	.40
Tartar Emetic .....	lb.	.29	Acid Tobias .....	lb.	1.50	— 1.60	Ethyl Chloride .....	lb.	—	.50
Tin, bichloride 50 p.c. Sol'n.....lb.	10.94	— 10.94	Acetanilid, tech.....	lb.	.25	— .27	"G" Salt .....	lb.	.66	— .70
Crystals .....	lb.	.28	p-Aminoacetanilid .....	lb.	1.25	— 1.30	Hydrazobenzene .....	lb.	1.30	— 1.35
Oxide .....	lb.	.38	Aminozobenzene .....	lb.	—	1.15	Methyl Chloride .....	lb.	—	.50
Tetrachloride .....	lb.	.20	p-Aminophenol .....	lb.	1.25	— 1.35	Michler's Ketone .....	lb.	—	—
Whiting, 100 lb.bgs./C/Lwks.ton	—	18.00	Hydrochloride .....	lb.	1.35	— 1.45	Monochlorobenzene, drums ..	lb.	1.00	— 1.12
Less C/L, 100 lb.bgs.wks.ton	—	23.00	o-Aminophenol .....	lb.	2.50	— 2.75	Monoethylaniline .....	lb.	1.00	— 1.05
French, bgs., N. Y.....ton	—	14.00	Aniline Oil, (drums extra).....	lb.	.14	— .15	a-Naphthol, crude .....	lb.	1.00	— 1.05
English, bgs., N. Y.....ton	—	23.00	Aniline Salt .....	lb.	.22	— .24	Refined .....	lb.	1.10	— 1.15
Zinc Carbonate, kegs, carlots	—	—	o-Anisidine .....	lb.	2.00	— 2.10	b-Naphthol, distilled .....	lb.	.23	— .25
and less .....	lb.	.14	p-Anisidine .....	lb.	3.00	— 3.05	a-Naphthylamine .....	lb.	.30	— .32
Chloride, Carlots and less in	barrels.	—	Technical .....	lb.	1.65	— 1.70	b-Naphthylamine, tech. ....	lb.	.95	— 1.00
Fused, American .....	lb.	.05	Anthraquinone Subl., bbls.....	lb.	1.35	— 1.60	Sublimed .....	lb.	1.50	— 1.55
Imported .....	lb.	.05	30 p.c. paste.....	lb.	.75	— .80	p-Nitroacetanilid .....	lb.	.55	— .60
Granulated, American .....	lb.	.06	Bayer's Salt .....	lb.	—	1.00	m-Nitroaniline .....	lb.	.72	— .76
Imported .....	lb.	.06	Benzaldehyde, Tech. drum	—	—	—	p-Nitroaniline .....	lb.	.75	— .79
Cyanide, kegs .....	lb.	.42	wks. ....	lb.	.65	— .70	Nitrobenzene, redistilled ..	lb.	.10	— .11
Dust, 100 lb. tins .....	lb.	—	Benzidine Base .....	lb.	.85	— .90	o-Nitrochlorobenzene .....	lb.	.32	— .35
500 lb. casks, 1c/l wks.....	lb.	—	Sulfate .....	lb.	.70	— .75	p-Nitrochlorobenzene .....	lb.	.25	— .28
C/L delivered .....	lb.	—	Benzoyl chloride .....	lb.	1.00	— 1.05	Nitronaphthalene .....	lb.	.20	— .22
Oxide, French, bbls. C/L.....	lb.	.10	Benzylchloride, redistilled ..	lb.	.35	— .37	p-Nitrophenol .....	lb.	.75	— .77
American, bbls. C/L.....	lb.	.08	95% tech. ....	lb.	.20	— .25	o-Nitrophenol .....	lb.	.75	— .77
Sulfate, bbls., Carlots & lessib.	.0234	— .03	Bromobenzene .....	lb.	.35	— .37	m-Nitro-p-toluidine .....	lb.	2.25	— 2.35

## Intermediates

Acid 1, 2, 4.....	lb.	.80	— .85
Acid, Anthranilic .....	lb.	1.80	— 1.35
Technical .....	lb.	1.10	— 1.15
Acid Benzole, tech. ....	lb.	.45	— .50
Acid Broenner's .....	lb.	1.55	— 1.60
Acid Chloracetic, bbls. &	kegs	.32 3/4	— .34 3/4
Acid Cleves .....	lb.	1.50	— 1.54
Acid Gamma .....	lb.	1.80	— 2.00
Acid H .....	lb.	.85	— .90
Acid Laurent's .....	lb.	.75	— .80
Acid Metanilic .....	lb.	1.00	— 1.10
Acid Monosulfonic F (delta).....	lb.	2.30	— 2.35
Acid Naphthionic, Crude.....	lb.	.60	— .62
Refined .....	lb.	.65	— .67
Acid Neville & Winter's.....	lb.	1.25	— 1.30
Acid Phthalic .....	lb.	.32	— .35

THE *Selder* BRAND

## PHTHALIC ANHYDRIDE

### Pure Needle Crystals

MADE BY AIR OXIDATION PROCESS

HIGHEST DEGREE OF PURITY

NO VARIATION IN QUALITY

The Walker  
Chemical Company

PITTSBURGH, PENN., U. S. A.

Specifications on Request

## DINITROTOLUENE

**P**ROBABLY the most vital factor governing the manufacture of artificial colors is the quality of the intermediates used for their synthesis.

Many consumers of Du Pont Dinitrotoluene continue the exclusive use of our product because it still is the market standard to which all others are compared.

E. I. du Pont de Nemours &amp; Co., Inc.,

Dyestuffs Department,

WILMINGTON DELAWARE

8 Thomas St., New York, N. Y.



## Coal-Tar Dyes

Schaeffer's Salt .....	lb.	.60	—	.65
Thiocarbamide .....	lb.	.35	—	.37
p-Toluene Sulfonamide .....	lb.	.40	—	.42
p-Toluene Sulfonchloride .....	lb.	.11	—	.14
Tolidine .....	lb.	1.15	—	1.20
Sulfate .....	lb.	—	—	1.00
Toluidine, Mixed .....	lb.	.30	—	.32
o-Toluidine .....	lb.	.16	—	.18
p-Toluidine .....	lb.	1.00	—	1.14
m-Toluylenediamine .....	lb.	.95	—	1.00
Triphenyl Phosphate .....	lb.	.50	—	.60
Xylidine .....	lb.	.42	—	.45

## Crudes

Anthracene, 80-85 p.c. ....	lb.	.75	—	1.00
40-45 p.c. ....	lb.	.12	—	.17
Benzene, C. P. ....	gal.	.29	—	.31
Resale, drums incl. F.A.S. gal.	—	—	—	—
90 p.c. ....	gal.	.27	—	.32
Carbazol .....	lb.	.75	—	.90
Cresylic Acid, 95 p.c. dark. gal.	.45	—	.47	
Straw, 97-99 p.c. ....	gal.	.50	—	.52
Cresol, U.S.P. ....	lb.	.12	—	.15
Cresote oil .....	gal.	.20	—	.22
Dip. oil .....	gal.	.24	—	.26
Naphthalene, balls .....	lb.	.08	—	.09
Flake .....	lb.	.07	—	.08
Second Hands .....	lb.	.06 1/4	—	.06 3/4
Phenol, Gov't. Surplus .....	lb.	.12	—	.17
Open Market .....	lb.	.12	—	.15
Natural .....	lb.	.15	—	.16
Pitch, various grades .....	ton	10.00	—	12.00
Solvent naphtha .....	gal.	.25	—	.30
Tar Acid Oil, 25 p.c. ....	gal.	.24	—	.26
50 p.c. ....	gal.	.34	—	.36
Toluene, pure .....	gal.	.30	—	.35
Xylene, 10 deg. dist. range. gal.	.35	—	.40	
5 deg. dist. range. ....	gal.	.40	—	.45
Nitration, 2 deg. range. gal.	.45	—	.50	

## Coal-Tar Dyes

## ACID COLORS:

Black .....	lb.	.80	—	1.10
Blue .....	lb.	1.00	—	3.00
Brown .....	lb.	.80	—	1.25
Fuchsin .....	lb.	1.50	—	2.50
Green .....	lb.	1.75	—	3.00
Orange II .....	lb.	.45	—	.50
Orange III .....	lb.	.80	—	.60
Red .....	lb.	.85	—	3.50
Scarlet .....	lb.	.65	—	1.00
Violet .....	lb.	1.60	—	3.50
Azo Yellow .....	lb.	1.50	—	2.00
Indigotin, paste .....	lb.	1.50	—	1.60
Metanil Yellow .....	lb.	1.30	—	1.80
Naphthol Green .....	lb.	1.50	—	1.60
Naphthylamine Red .....	lb.	6.75	—	7.25
Orange, R. G. ....	lb.	.55	—	.80
Ponceau .....	lb.	.80	—	.90
Scarlet 2R .....	lb.	.65	—	.70
Tartarazin, Dom. ....	lb.	1.20	—	1.50
Wool Green S .....	lb.	1.50	—	4.00

## DIRECT COLORS:

Black .....	lb.	.55	—	.65
Blue 2B .....	lb.	.60	—	.80
Brown R .....	lb.	.85	—	1.00
Brown G .....	lb.	1.25	—	1.70
Bordeaux .....	lb.	1.75	—	2.00
Fast Black .....	lb.	1.25	—	1.35
Fast Pink .....	lb.	1.75	—	2.50
Fast Red .....	lb.	2.35	—	2.50
Fast Yellow .....	lb.	1.50	—	2.00
Yellow .....	lb.	2.00	—	2.75
Violet con't .....	lb.	1.00	—	1.25
Benzopurpurin, 4 B. ....	lb.	1.10	—	1.20
Chrysophenin, Dom. ....	lb.	1.10	—	1.25
Congo Red 4B Type .....	lb.	.80	—	1.00
Primuline .....	lb.	1.50	—	2.00

## SULFUR COLORS:

Black .....	lb.	.30	—	.25
Blue .....	lb.	.60	—	1.00
Brown .....	lb.	.35	—	.60
Green .....	lb.	1.00	—	1.75
Yellow .....	lb.	.75	—	1.00

## CHROME COLORS:

Alizarin Blue, bright. ....	lb.	5.00	—	5.50
Alizarin Brown, conc. ....	lb.	—	—	2.50
Alizarin Cyanine .....	lb.	1.10	—	2.00
Alizarin Orange .....	lb.	1.25	—	1.50
Alizarin Red, 70 p.c. Paste. lb.	.60	—	1.00	
Alizarin Yellow G. ....	lb.	.85	—	1.00
Chrome Black, Dom. ....	lb.	.55	—	.65
Chrome Blue .....	lb.	.75	—	2.00
Chrome Brown .....	lb.	.80	—	1.00
Chrome Green, Dom. ....	lb.	1.50	—	3.00
Chrome Red .....	lb.	1.75	—	2.00
Chrome Yellow .....	lb.	.65	—	1.00

## BASIC COLORS:

Alkali Blue, conc. ....	lb.	4.50	—	5.00
Auramine O .....	lb.	—	—	1.50
Auramine OO .....	lb.	—	—	2.50
Bismarck Brown R. ....	lb.	.70	—	.80
Brilliant Green Crystals. lb.	2.25	—	2.50	
Chrysoidin .....	lb.	.75	—	.80
Crystal Violet .....	lb.	3.00	—	3.25
Indigo 20 p.c. paste. ....	lb.	.35	—	.38
Fuchsin Crystals, Dom. ....	lb.	3.00	—	3.40
Malachite Green, Crystals. lb.	1.60	—	1.65	
Methylene Blue, tech. ....	lb.	1.50	—	2.00
Methyl Violet, 6B. ....	lb.	2.75	—	3.25
Nigrosine, spts. sol. ....	lb.	—	—	.70
Rhodamine B. ex. con't. ....	lb.	8.00	—	9.00
Safranin .....	lb.	2.50	—	3.00
Victoria Blue, base, Dom. lb.	3.50	—	4.50	

Progress in the Dyestuff Industry is the result of Research. Improved quality, increased yields and new production are all dependent on extensive and continued research. The Grasselli Research Laboratories have produced products, which, type for type, are equal to pre-war colors.

May we demonstrate to you the quality of Grasselli dyes?



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Sole Selling Agents for Essex Aniline Works, Inc., Boston, Mass.

## Dyestuffs

## Natural Dyestuffs

Annatto, fine .....	lb.	.26	—	.29
Seed .....	lb.	.05	—	.06
Carmine No. 40.....	lb.	5.00	—	4.25
Cochineal .....	lb.	.33	—	.40
Gambler, see tanning.				
Indigo, Bengal .....	lb.	—	—	—
Oudes .....	lb.	—	—	—
Guatemala .....	lb.	—	—	—
Kurpahs .....	lb.	—	—	—
Madras .....	lb.	.90	—	.92
Madder, Dutch .....	lb.	.25	—	.26
Nutgalls, blue Aleppo.....	lb.	.14	—	.15
Chinese .....	lb.	.15	—	.16
Quercitron Bark, see tanning.				
Turmeric, Madras .....	lb.	.06 1/4	—	.06 1/4
Aleppy .....	lb.	.06	—	.06 1/4

## Dyewoods

Barwood .....	lb.	.04 1/2	—	.05
Camwood, chips .....	lb.	.09	—	.13
Fustic, sticks .....	ton	35.00	—	37.00
Chips .....	lb.	.04	—	.06
Hypernic, chips .....	lb.	.06 1/2	—	.07
Logwood Sticks .....	ton	—	—	30.00
Chips .....	lb.	.02 1/2	—	.03
Quercitron Bark, see tanning.				
Red Saunders .....	lb.	.12	—	.13

## Dye Extracts

Note: Range of prices on dye extracts includes quality range for large quantity.				
Archil, Double .....	lb.	.16	—	.18
Triple .....	lb.	.17	—	.19
Concentrated .....	lb.	.18	—	.20

Dutch, Mangrove, see Tanning				
Rangoon, boxes .....	lb.	.15	—	.19
Liquid .....	lb.	.10	—	.11
Tablet .....	lb.	.13	—	.14
Cudbear, French .....	lb.	—	—	—
English .....	lb.	.21	—	.23
Concentrated .....	lb.	—	—	—
Flavine .....	lb.	.90	—	.95
Fustic, Solid .....	lb.	.14	—	.18
Crystals .....	lb.	.22	—	.24
Liquid, 51 deg. ....	lb.	.10	—	.14
Gall .....	lb.	.16	—	.18
Hematin Extract 51 deg. ....	lb.	.11 1/4	—	.13 1/4
Crystals .....	lb.	.16	—	.20
Hypernic, liquid, 51 deg. ....	lb.	.15	—	.20
Logwood, solid .....	lb.	.15	—	.23
51 deg., Twaddle .....	lb.	.08	—	.13
Osage Orange, Extract 42 deg. ....	lb.	.07	—	.10
Crystals .....	lb.	.18	—	.19
Persian Berries .....	lb.	.27	—	.30
Juebracho, see tanning.				
Quercitron, 51 deg. ....	lb.	.06	—	.07
Powdered, 100 p.c. ....	lb.	.09	—	.13

## Miscellaneous Dyestuffs

Albumen, Egg, edible.....	lb.	—	—	.75
*Technical .....	lb.	—	—	.65
Blood, imported .....	lb.	—	—	.50
Domestic .....	lb.	.45	—	.50
Prussian blue .....	lb.	.45	—	.50
Soluble .....	lb.	.45	—	.50
Spray yolk .....	lb.	.35	—	.45
Turkey Red Oil .....	lb.	.09	—	.11
Yolk Oil .....	lb.	—	—	.35

## Dextrins and Starches

British Gum .....	per 100 lbs.	3.29	—	3.57
Dextrin, Corn, white or yellow .....	per 100 lbs.	2.99	—	3.27
Potato white or canary.....	lb.	.09	—	.09 1/4
Sago Flour .....	lb.	.03 1/2	—	.03 1/4
Starch, Powd., bags.....	100 lbs.	2.32	—	2.60
Pearl, bags .....	100 lbs.	2.22	—	2.50
Potato, Domestic .....	lb.	.05 1/4	—	.05 1/4
Imported, duty paid.....	lb.	.06 1/4	—	.07 1/4
Tapioca flour, high grade.....	lb.	.05	—	.05 1/4
Medium grade .....	lb.	.03 1/4	—	.04
Low grade .....	lb.	.03	—	.03 1/4

## Tanning Woods

Algarobilla .....	ton	—	—	—
Divi Divi .....	ton	32.00	—	34.00
Hemlock Bark .....	ton	16.00	—	18.00
Mangrove, African, 38 p.c. ....	ton	—	—	35.00
Bark, S. A. ....	ton	25.00	—	30.00
Myrobalans, J1 .....	ton	—	—	25.00
J2 .....	ton	—	—	20.00
B1 .....	ton	—	—	34.00
B2 .....	ton	—	—	19.00
R2 .....	ton	—	—	17.00
Oak Bark .....	ton	20.00	—	23.00
Ground .....	ton	—	—	25.00
Quercitron Bark rough.....	ton	—	—	10.00
Ground .....	ton	20.00	—	28.00
Sumac, Sicily, 28 p.c. ....	ton	55.00	—	58.00
Virginia, 25 p.c. ....	ton	—	—	35.00
Valonia Cups 28-33 p.c. ....	ton	31.00	—	35.00
Beard 40 p.c. ....	ton	40.00	—	42.00
Wattle Bark .....	ton	38.00	—	40.00

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## Fixed Oils

## Tanning Extracts

Chestnut, clarified, 25 p.c. tan, tanks, f.o.b. wks.....lb.	.01½	.01¾
Powdered, 60 p.c.....lb.	.05½	.05¾
Decolorized.....lb.	.09	.09½
Gambler, 25 p.c. tan liq.....lb.	.06½	.07
Common.....lb.	.08½	.09¾
Cubes, Singapore.....lb.	.07	.07½
Hemlock, 25 p.c. tan works.....lb.	.04	.04½
Larch, 25 p.c. tan.....lb.	.03¾	.04
Crystals, 50 p.c. tan.....lb.	.08	.08¾
Mangrove, 55 p.c. tan.....lb.	.06¾	.06¾
Myrobalans, liq., 25 p.c.tan.....lb.	.05	.05½
Solid, 50 p.c. tan.....lb.	.06¾	.06¾
Oak Bark, liquid, 23-25 p.c.tan.....lb.	.06	.06¾
Tanks.....lb.	.04½	.04¾
Quebracho, liquid, 35 p.c. tks.....lb.	.03½	.03¾
Barrels.....lb.	.04	.04½
35 p.c. tan, bleaching.....lb.	.04½	.06
Solid, 65 p.c. tan ordinary.....lb.	.04½	.04¾
Clarified.....lb.	.05	.05¾
Spruce, liquid, 25 p.c. tan, works, tanks.....lb.	.01	.01¾
Powd., 50 p.c. tan.....lb.	.02	.02¾
Sumac, liquid.....lb.	.07	.08

## Animal and Fish Oils

(Carloads)		
Cod Newfoundland.....gal.	.60	.62
Tanks.....gal.	.55	.56
Domestic, prime.....gal.	—	—
*Degras American.....lb.	.04	.04½
English.....lb.	.04½	.04½
Neutral.....lb.	.06	.07

*Herring, N.Y. bbls.....gal.	.44	.45
Horse.....lb.	—	.05½
Lard prime, tech.....lb.	—	.10½
Edible.....lb.	—	.14½
Off prime.....lb.	—	.10¾
No. 1.....lb.	—	.09½
Extra, No. 1.....lb.	—	.09¾
No. 2.....lb.	—	.09
Menhaden, Light grained.....gal.	.56	.58
Yellow, bleached.....gal.	.58	.60
Extra, bleached, winter.....gal.	.60	.62
Blown.....gal.	.65	.68
*Crude, f.o.b. works, bbls.....gal.	—	—
*Tanks, wks.....gal.	—	—
Neatsfoot, 20 deg.....lb.	—	.24
30 deg., cold test.....lb.	—	.18
Pure.....lb.	—	.18
Oleo Oil, No. 1.....lb.	—	.09¾
No. 2.....lb.	—	.08½
Red Distilled.....lb.	—	.08½
Saponified.....lb.	—	.08½
Salmon, tanks, Coast.....gal.	—	.40
Sod.....gal.	—	.44
Sperm bleached winter.....gal.	—	1.65
38 deg., cold test.....gal.	—	1.60
45 deg., cold test.....gal.	.09	.09¾
Stearic Acid, single pressed.....lb.	—	.09½
Double pressed.....lb.	—	.10½
Triple pressed.....lb.	—	.11
Tallow acidless, tanks.....lb.	—	.09½
Barrels, c.l.....lb.	—	.10
Whale, natural winter.....gal.	—	.70
Bleached, winter.....gal.	—	.75
Crude, No. 1 tanks, Coast.....lb.	.05	.05¾
No. 2.....lb.	—	—

## Greases, Lards, Tallowes

(New York Markets)		
Grease, Choice White.....lb.	.07½	.08
Yellow.....lb.	.05½	.06
Brown.....lb.	.05	.05½
House.....lb.	.05½	.05¾
Bone Naphtha.....lb.	.04½	.05

Lard City, Steam.....lb.	.11¾	.12
Compound.....lb.	.13	.13½
Stearine, lard.....lb.	.14½	.14½
Oleo.....lb.	.09¾	.09¾
Tallow, edible.....lb.	—	.08
City, Extra, loose.....lb.	—	.06¾
(Chicago Markets)		
Tallow, edible.....lb.	.07¾	.07½
City Fancy.....lb.	.07	.07¾
Prime Packers.....lb.	.06¾	.07
Grease, Choice White.....lb.	.06	.06¾
*"B" White.....lb.	.05¾	.05½
Brown.....lb.	.04¾	.05
Bone.....lb.	.04	.04½
House.....lb.	.04¾	.05
Stearine, prime Oleo.....lb.	.08½	.08¾
Lard.....lb.	.11¾	.11¾

## Vegetable Oils

Castor, No. 1, bbls.....lb.	—	.12
Cases.....lb.	—	.13
No. 3.....lb.	—	.11
China Wood Oil, bbls.....lb.	.13½	.14
*Coast, tanks.....lb.	—	.11½
Orient to N. Y., bbls.....lb.	.12	.12½
Coconut Dom., Ceylon, bbls.....lb.	.06¾	.09
*Tanks, Spot.....lb.	.08	.08¾
Cochin, bbls., Dom.....lb.	.09¾	.10
*Tanks.....lb.	.08¾	.09
Manila, tanks, coast.....lb.	.07¾	.07½
Edible.....lb.	.10	.10½
Copra, c.i.f., N. Y.....lb.	.12	.12¾
Corn, refined, bbls.....lb.	.09½	.09¾
Crude Tanks Shipping pt.....lb.	.10¾	.11
Barrels.....lb.	—	.11½
Crude, bbls., N. Y.....lb.	—	.11½
*Cottonseed, Crude, f.o.b. mills in buyers' tanks.....lb.	—	.10
Prime Summer, Yel., bbls.....lb.	.11¾	.12
*White.....lb.	—	.12
Winter, yellow.....lb.	—	.12¾
*Nominal	—	—

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Linseed, raw car lots.....gal.	.88	—	.90
10 barrel lots.....gal.	.91	—	.93
Boiled, 5-bbl. lots.....gal.	.93	—	.95
Double boiled.....gal.	.94	—	.96
Raw, tanks.....gal.	.84	—	.85
Imported, spot, bbls.....gal.	.86	—	.88
Olive, denatured.....gal.	1.12	—	1.15
Edible.....gal.	1.80	—	2.10
Foots, Spot, bbls.....lb.	.0834	—	.0934
Shipment, bbls.....lb.	.0875	—	.0975
Palm Lagos, casks.....lb.	.0734	—	.0734
Bonny Old Calabar.....lb.	.0634	—	.07
Niger.....lb.	.0634	—	.0634
Palm Kernel, domestic.....lb.	—	—	—
Imported.....lb.	.09	—	.0934
Peanut Oil, refined.....lb.	.13	—	.1334
Crude, f.o.b. mills tanks.....lb.	.10	—	.1034
*Oriental, coast, tanks.....lb.	—	—	—
*Crude, bbls, spot.....lb.	—	—	.1134
Perilla, c.i.f., N. Y., bbls.....lb.	.1234	—	.13
Bbls., N. Y.....lb.	.1334	—	.14
Poppy Seed.....gal.	—	—	2.50
Rapeseed, ref'd bbls.....gal.	.88	—	.85
Blown, bbls., 8 lbs.....gal.	.92	—	.95
Sesame, domestic, edible.....gal.	1.10	—	1.15
*Imported.....lb.	—	—	—
Soya Bean, tanks Coast, June.....lb.	.10	—	.1034
C.i.f., N. Y. in Bond.....lb.	.07	—	.0734
New York, bbls, crude.....lb.	—	—	.1134
Edible.....lb.	.13	—	.1334
Teaseed, crd., bbls.....lb.	.12	—	.1234
Walnut, Crude.....lb.	.10	—	.1034

### OIL CAKE AND MEAL

Cottonseed Cake, f.o.b. Texas.....	—	—	—
f.o.b. New Orleans.....	—	—	—
Cottonseed, Meal, f.o.b. Atlanta.....	—	—	33.00
Columbia.....	—	—	—
New Orleans.....ton	—	—	—
Corn Cake.....short ton	—	—	—
Meal Chicago.....short ton	—	—	30.00
Linseed cake, dom.....short ton	—	—	47.00
Linseed Meal.....short ton	—	—	49.00

\*Nominal

### Naval Stores

(Carloads ex-yard)

Spirits Turpentine, in bbls.gal.	.99 1/2	—	1.00
Wood Turpentine, steam dis-	—	—	—
tilled, bbls.....gal.	—	—	—
Destactive distilled, bbls.gal.	—	—	6.00
Pitch Prime.....bbl.	—	—	5.50
Rosins, B.....	—	—	5.50
D.....	—	—	5.50
E.....	—	—	5.70
F.....	—	—	5.80
G.....	—	—	5.95
H.....	—	—	5.95
I.....	—	—	5.95
K.....	—	—	6.10
M.....	—	—	6.35
N.....	—	—	6.75
WG.....	—	—	7.50
WW.....	—	—	8.25
Rosin Oil, first run.....gal.	.36	—	.37
Second run.....gal.	.38	—	.39
Tar, kiln-burnt.....bbl.	—	—	10.00
Retort.....bbl.	—	—	9.00

### Fertilizer Materials

*Ammon. Sulf. bulk, wks. 100 lbs.	2.90	—	3.00
Double bgs., f.a.s., N.Y. 100 lbs.	3.50	—	3.60
Blood, dried, f.o.b. N.Y. unit	3.65	—	3.70
Bone, 3 and 50, ground, raw ton	28.00	—	30.00
Raw, Chicago.....ton	—	—	25.00
Cyanamide wks.....unit	—	—	2.75
Fish Scrap, dom., dried, f.o.b.	—	—	—
works.....unit	3.50	&	.10
Nitrate Soda.....100 lbs.	2.65	—	2.75
Tankage, high-grade, f.o.b.	—	—	—
Chicago.....unit	3.65	&	.10
Ground, N. Y.....unit	3.75	&	.10

### Phosphate Rock—F.o.b. Mines

Florida pebble, 68-78 p.c.....ton	3.00	—	5.50
Tennessee, 70-75 p.c.....ton	4.00	—	5.50
Phosphate, Acid, 16 p.c.wks.ton	8.00	—	8.50
Potassium muriate, 80 p.c.unit	.60	—	.65
Sulfate.....unit	—	—	1.00
Steamed Bone Meal, N.Y.....ton	28.00	—	30.00

### Metals

Aluminum 98-99% Virgin.....cwt.	17.50	—	18.50
Remelted, Scrap.....cwt.	.0834	—	.09
Antimony, Jap. & Chinese.cwt.	5.37 1/2	—	5.50
Bismuth, (See Fine Chemical Prices)	—	—	—
Cadmium.....lb.	1.00	—	1.10
Cobalt.....lb.	3.00	—	3.25
Copper prime Lake.....cwt.	13.87 1/2	—	14.00
Electrolytic.....cwt.	13.87 1/2	—	14.00
Casting.....cwt.	—	—	13.00
Graphite, crude, Amorphous ton	18.00	—	45.00
Flake.....lb.	.04	—	.08
Iridium.....oz.	150.00	—	160.00
Lead, N. Y.....cwt.	5.65	—	5.70
Magnesium, 99 p.c.....lb.	—	—	1.25
Manganese ore.....unit	.25 1/2	—	.26
Mercury.....flask	55.00	—	57.00
Nickel Ingot.....cwt.	—	—	36.00
Shot.....cwt.	—	—	37.00
Electrolytic.....cwt.	—	—	39.00
Palladium.....oz.	51.00	—	65.00
Platinum, pure.....oz.	—	—	85.00
Silver.....oz.	—	—	.99 1/4
Foreign.....oz.	—	—	.71 1/4
Tin Straits.....cwt.	—	—	31.12 1/2
American, Standard.....cwt.	—	—	30.50
99 p.c. pure.....cwt.	—	—	30.12 1/4
Tungsten, ore per short ton unit	—	—	—
Wolframite, Chinese.....	—	—	2.00
Bolivian.....	—	—	2.75
Scheelite, Amer.....	—	—	—
Japanese.....	—	—	—
Zinc Slabs, High Grade, C/L.cwt.	—	—	6.00
Common, C/L, N.Y.....cwt.	5.50	—	5.55

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## Crude Drugs

## MISCELLANEOUS

Agar Agar, No. 1.....lb.	1.20	— 1.25
No. 2.....lb.	1.00	— 1.05
No. 3.....lb.	.85	— .86
Agaric, white.....lb.	1.35	— 1.50
Almonds, bitter, 28 lb. bxs.....lb.	.25	— .30
Sweet.....lb.	.30	— .35
Meal.....lb.	.28	— .30
Ambergris, black.....oz.	—	8.00
Gray.....oz.	—	25.00
Areca Nuts.....lb.	.08	— .08½
Powdered.....lb.	—	.12
Arrowroot, Amer. powd.....lb.	.05	— .06
St. Vincent, powd., bbls.....lb.	.08	— .09
Balm of Gilead Buds.....lb.	.40	— .45
Burgundy Pitch, Dom.....lb.	—	.05
Cantharides, Chinese, cases.....lb.	1.00	— 1.10
Powdered.....lb.	1.25	— 1.30
Russian, whole.....lb.	—	4.50
Powdered.....lb.	—	5.00
Cascara Amara, 150 lb. bales.....lb.	.35	— .36
Castoreum.....lb.	—	4.00
Charcoal Willow, pd. bbls.....lb.	.06	— .07
Wood, powdered.....lb.	.04	— .04½
Civet.....oz.	2.75	— 3.00
Cochineal, U.S.P.....lb.	.40	— .50
Colocynth, Apples.....lb.	.22	— .23
Pulp, U.S.P.....lb.	.39	— .40
Spanish Apples.....lb.	.28	— .29
Cuttlefish Bone, Trieste.....lb.	.18	— .19
Jewelers, large.....lb.	.60	— .70
Small.....lb.	.60	— .70
French.....lb.	.18	— .20
Powdered.....lb.	—	.14
Dragon's Blood, Mass.....lb.	.50	— .55
Reeds.....lb.	.68	— .70
Ergot, Russian.....lb.	—	1.02
Spanish, 200 lb. bags.....lb.	—	1.02
Grains of Paradise.....lb.	.12	— .13
Guarana.....lb.	—	.80
Honey Calif.....lb.	—	.11

Hops, N. Y., prime.....lb.	.23	— .25
Pacific Coast, prime.....lb.	.23	— .25
Isinglass, American (see Agar Agar)		
Russian.....lb.	—	10.00
Kamala.....lb.	—	3.25
Kola Nuts, 150 lb. bags.....lb.	.04	— .05
Leeches.....C.	5.00	— 6.00
Lime Juice, clarified.....gal.	.50	— .60
Lupulin.....lb.	1.25	— 1.30
Lycopodium, 22 lb. boxes.....lb.	1.00	— 1.10
Manna, large flake.....lb.	—	.85
Small flake.....lb.	.48	— .50
Sorts.....lb.	.43	— .45
Moss, Iceland.....lb.	.07	— .08
Irish, Bleached.....lb.	.07	— .09
Musk, pods, Cabardine.....oz.	16.00	— 17.00
Tonquin.....oz.	17.00	— 19.00
Grain, Cab.....oz.	25.00	— 26.00
Tonquin.....oz.	32.00	— 33.00
Synthetic, See Aromatic Chemicals		
Nutgalls, Chinese.....lb.	.16	— .17
Aleppy.....lb.	.13	— .14
Nux Vomica, buttons, bgs.....lb.	.06	— .07
Powdered, bbls.....lb.	.10	— .11
Quassia Chips.....lb.	.08	— .08½
Sandalwood, Chips.....lb.	—	.35
Ground.....lb.	—	.40
Scammony, resin.....lb.	—	1.25
Spermaceti, blocks.....lb.	.30	— .31
Storax, liquid, artif.....lb.	.75	— .80
Gen., U.S.P.....lb.	—	1.30
Tamarinds, bbls.....lb.	.03	— .03½
Kegs.....per keg	2.75	— 3.00
Tar, Barbadoes.....gal.	1.25	— 1.35
Turpentine, Venice, True.....lb.	.40	— .42
Artificial.....lb.	.09	— .10
Spirits, See Naval Stores		

## BALSAMS

Copaiba, Para.....lb.	.25	— .26
South American.....lb.	.29	— .30
Fir, Canada.....gal.	10.75	— 11.00
Oregon, bbls., cans.....gal.	1.20	— 1.45
Peru.....lb.	2.00	— 2.10
Tolu.....lb.	.50	— .55

## BARKS

Angostura.....lb.	.14	— .15
Basswood Bark, pressed.....lb.	.14	— .15
Barberry (tree).....lb.	.21	— .22
Bayberry.....lb.	.10	— .12
Blackhaw of Root.....lb.	.22	— .23
of Tree.....lb.	.15	— .16
Buckthorn.....lb.	.06½	— .07
Calisaya.....lb.	.18	— .22
Canella alba.....lb.	.50	— .55
Cascara Sagrada.....lb.	.11	— .17
Cascarilla, quills.....lb.	.30	— .35
Siftings.....lb.	.20	— .25
Chestnut.....lb.	.08½	— .09
Cinchona, Red quills.....lb.	.45	— .55
Broken.....lb.	.15	— .20
Condurango, 75 lb. bales.....lb.	.08	— .09
Cotton Root.....lb.	—	.14
Cramp (so-called).....lb.	.08	— .09
Cramp (true).....lb.	.40	— .42
Dogwood, Jamaica.....lb.	.09	— .11
Elm, Select, 5 lb. bundles.....lb.	.21	— .22
Grinding.....lb.	.11	— .12
Powdered.....lb.	.13	— .14
Fringe Tree.....lb.	.20	— .21
Hemlock.....lb.	—	.06
Lemon Peel.....lb.	.08½	— .09
Mezereon.....lb.	.10	— .11
Oak, red.....lb.	.05	— .06
White.....lb.	.05	— .06

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Trisodium  
Phosphate

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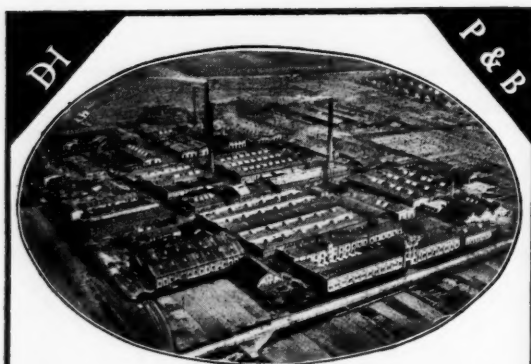
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NEW YORK

## Crude Drugs

Orange Peel, bitter.....lb.	.05½	.06	BERRIES			GUMS	
Sweet.....lb.	.05	.05½	Cubebs, ordinary, 130 lb.bags..lb.	—	.95	Aloes, Barbados.....lb.	— .50
Prickly Ash, Southern.....lb.	.15	.15½	XX.....lb.	—	1.00	Cape, 400 lb. cases.....lb.	.07½ .08
Northern.....lb.	.15	.15½	Powdered.....lb.	—	1.00	Curacao, 100 lb. cases.....lb.	.06 .06½
Pomegranate of Root.....lb.	.16	.17	Fish, 100-125 lb. bags.....lb.	.04½ .05		Scroterine, whole.....lb.	— .40
of Fruit.....lb.	.16	.17	Horse, Nettle, dry.....lb.	.35 .36		Ammoniac, tears.....lb.	1.50 1.60
Sassafras, ordinary.....lb.	.10	.14	Juniper, 125 lb. bags.....lb.	.03¾ .04		Arabic, firsts.....lb.	.22 .24
Select.....lb.	.19	.22	Laurel.....lb.	— .08		Seconds.....lb.	.19 .21
Simaruba.....lb.	.14	.15	Poke.....lb.	— .16		Sorts Amber, 220 lb. bags..lb.	.12 .12½
Soap, whole, 150 lb. bales.....lb.	.06	.06½	Prickly Ash.....lb.	.11 .12		Powdered, U.S.P.....lb.	.18 .20
Cut, 125 lb. bags.....lb.	.08½ .09		Raspberries, dried.....lb.	.35 .40		Asafetida, whole, U.S.P.....lb.	.30 .32
Crushed, 200 lb. bbls.....lb.	.08½ .09		Saw Palmetto.....lb.	.12 .13		Powdered, 180 lb. bbls.....lb.	.52 .54
Powdered.....lb.	.12 .13		Sloe.....lb.	.14 .15		Benzoin, Siam.....lb.	1.40 1.60
Tagalder.....lb.	.05 .05½					Sumatra.....lb.	— .55
Tonga.....lb.	.30 .31		FLOWERS			Camphor, ref., See Fine chem. list	
Wahoo of Root.....lb.	.52 .53		Arnica.....lb.	.00¾ .10		Catchu.....lb.	— .10
of Tree.....lb.	.25 .26		Borage.....lb.	— .25		Chicle.....lb.	.60 .75
Willow Black.....lb.	— .06		Calendula Petals, Imp.....lb.	— .50		Damar.....lb.	.30 .32
White.....lb.	— .15		Chamomile, Hung.150-200lb.cs.lb.	.29 .30		Euphorbium.....lb.	— .35
White Pine Rosed.....lb.	.06 .07		Roman.....lb.	— .75		Powdered.....lb.	— .55
White Poplar.....lb.	.04 .05		Clover Tops.....lb.	— .10		Galbanum.....lb.	1.10 1.20
Wild Cherry.....lb.	— .12		Dogwood.....lb.	— .15		Gambier.....lb.	.06¼ .07
Thin Green Rosed.....lb.	.10 .12		Elder.....lb.	.23 .24		Gamboge.....lb.	1.25 1.35
Thick Rosed.....lb.	.07½ .08		Insect, open whole.....lb.	— .41		Guaiac.....lb.	— .60
Thin Natural.....lb.	.08 .09		Closed whole.....lb.	— .43		Karaya, Powdered.....lb.	.15 .20
Thick Natural.....lb.	.05 .05½		Powdered, Pure, 100 lb. kegslb.	.52 .53		Kino, Black.....lb.	— .50
Witch Hazel.....lb.	— .08		Flowers and stems, 50 p.c.lb.	.53 .55		Mastic.....lb.	.45 .50
			Kousoo.....lb.	— 1.10		Myrrh, Select.....lb.	.45 .50
BEANS			Lavender.....lb.	.26 .35		Sorts.....lb.	.40 .45
Calabar.....lb.	— .18		Linden, with Leaves.....lb.	.12 .15		Olibanum sift, 280 lb. case..lb.	.09½ .10½
Cassia Fistula.....lb.	.08½ .09		Without Leaves.....lb.	.25 .30		Tears, 260 lb. case.....lb.	.15 .20
Castor.....lb.	.03 .03½		Malva, blue.....lb.	— .35		Opium, See fine chem. list	
St. Ignatius.....lb.	— .22		Black.....lb.	— —		Sandarac.....lb.	.23 .25
St. John's Bread.....lb.	.03 .06		Mullein.....lb.	— .60		Scammony Resin.....lb.	1.35 1.40
Tonka, Angostura.....lb.	1.20 1.30		Orange.....lb.	— 1.00		Senegal, picked.....lb.	.15 .16
Para.....lb.	.80 .90		Poppy, red.....lb.	.40 .40		Spruce.....lb.	1.00 1.50
Surinam.....lb.	.85 .95		Rose petals, pale, red.....lb.	.25 .65		Storax, Tech. cases, See Misc'l Drugs	
Vanilla, Mexican, whole.....lb.	10.00 12.00		Rosemary.....lb.	.28 .30		Thus.....lb.	.04½ .06
Cuts.....lb.	8.00 8.50		Saffron.....lb.	1.05 .40		Tragacanth, Aleppo first.....lb.	1.19 2.00
Bourbon.....lb.	3.00 3.75		Valencia.....lb.	27.00 28.00		No. 2 to No. 6.....lb.	1.00 1.75
South American.....lb.	7.00 7.25		Violet.....lb.	— .70		Powdered.....lb.	.75 1.50
Tahiti, Yellow Label.....lb.	— 2.10		Tilia (see Linden)			Turkish.....lb.	.75 .90
Green Label.....lb.	— 2.10						



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SHELLAC		
D. C. ....lb.	.92	— .93
Fine Orange ....lb.	.80	— .81
Second Orange ....lb.	.78	— .80
T. N. ....lb.	.73	— .74
Ground reg. ....lb.	.85	— .87
Regular bleached ....lb.	.77	— .78
Bone Dry ....lb.	.91	— .92

LEAVES AND HERBS		
Aconite ....lb.	.26	— .27
Balmory ....lb.	.14	— .15
Belladonna ....lb.	.10	— .13
Boneset, leaves and tops....lb.	.09	— .10
Buchu, Short, 250 lb. bales....lb.	.87½	— .95

Long		
Cannabis, true, imported....lb.	—	— 6.00
American (no assay)....lb.	—	— .20
U.S.P. ....lb.	—	— .30

Catnip ....lb.	.10	— .15
Chestnut ....lb.	—	— .06
Chiretta ....lb.	—	— .20
Coca, Huanuco ....lb.	—	—
Truxillo ....lb.	—	— .35

Coltsfoot ....lb.	.07	— .07½
Corn Silk, 200 lb. bales....lb.	.05	— .05½
Damlana ....lb.	.09	— .10
Deer Tongue ....lb.	.07½	— .08
Digitalis ....lb.	.08	— .09
Eucalyptus ....lb.	.05	— .05½
Euphorbia Pilulifera ....lb.	.14	— .15
Grindelia Robusta ....lb.	.09	— .10
Henbane ....lb.	.60	— .65
Henna ....lb.	.17	— .18
Horchound ....lb.	.07½	— .08
Horsetail ....lb.	.14	— .15
Jaborandi ....lb.	.35	— .40

Laurel ....lb.	.03½	— .04
Life Everlasting ....lb.	.05	— .06
Liverwort ....lb.	—	— .25
Lobelia ....lb.	.08½	— .09
Matico ....lb.	—	— .20
Marjoram, German ....lb.	.22	— .23
French ....lb.	.13½	— .16
Motherwort Herb ....lb.	—	— .11
Patchouli ....lb.	.25	— .28
Pennyroyal ....lb.	.08	— .14
Peppermint, American ....lb.	.20	— .22
Pichi ....lb.	—	— .10
Prince's Pine ....lb.	.14	— .15
Plantain ....lb.	—	— .15
Pulsatilla ....lb.	—	— .40
Queen of the Meadow ....lb.	.06	— .06½
Rosemary ....lb.	.03	— .04
Rue ....lb.	—	—
Sage, Dalmatian ....lb.	.05½	— .06½
Greek ....lb.	.03	— .04
Spanish ....lb.	.03	— .04
Savory ....lb.	.10	— .10½
Senna, Alex. whole, cases....lb.	.32	— .35
Half Leaf, 350 lb. bales....lb.	.15	— .16
Siftings ....lb.	.09	— .09½
Powdered ....lb.	.12	— .13
Tinnevely, Jobbing ....lb.	.10	— .12
Grinding ....lb.	.04	— .06
Pods ....lb.	.06	— .06½
Powdered ....lb.	.08	— .09
Sideritis, cut ....lb.	.19	— .20
Skullcap, Western ....lb.	—	— .20
Spearmint, American ....lb.	—	— .24
Squaw Vine ....lb.	.14	— .15
Stramonium ....lb.	.08½	— .09
Tansy ....lb.	.16	— .18
Thyme Spanish ....lb.	.07½	— .08
French ....lb.	.09½	— .10
Uva Ursi ....lb.	.06	— .07
Witch Hazel ....lb.	.08	— .09
Wormwood, imported ....lb.	.10	— .12
Yerba Santa ....lb.	.11	— .12

## ROOTS

Aconite, U.S.P. ....lb.	.22	— .24
Aletris (Unicorn true)....lb.	.30	— .32
Alkanet ....lb.	.10	— .12
Althea, cut ....lb.	.13	— .14
Whole ....lb.	.08	— .10
Angelica American ....lb.	.15	— .16
Arnica ....lb.	.25	— .26
Bamboo Brier ....lb.	.04	— .05
Bearsfoot ....lb.	.04½	— .05
Belladonna ....lb.	.11	— .13
Berberis Aquifolium ....lb.	.17	— .18
Beth ....lb.	.17	— .18
Blood ....lb.	.14	— .15
Blueflag ....lb.	.24	— .26
Bryonia ....lb.	.10	— .12
Burdock ....lb.	.12	— .13
Calamus, bleached ....lb.	—	— .45
Unbleached, natural ....lb.	.10	— .11
Cohosh, black ....lb.	.07	— .08
Blue ....lb.	.08	— .09
Colchicum ....lb.	.13	— .15
Colombo, whole ....lb.	.03	— .04
Comfrey ....lb.	.20	— .22
Culver's ....lb.	.17	— .18
Cranesbill ....lb.	.12	— .12½
Dandelion, Imported ....lb.	.07	— .08
Doggrass, U.S.P., cut ....lb.	.09	— .10
Echinacea ....lb.	.32	— .33
Elecampane ....lb.	.09	— .10
Galangal ....lb.	.07	— .08
Gelsemium ....lb.	.11	— .12
Gentian ....lb.	.08	— .09

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# Essential Oils

## Essential Oils

Cloves, Zanzibar, 135 lb. bale..	.29	—	.30
Amboyas .....	—	—	—
Penang .....	.60	—	.65
Ginger, African .....	.09 1/2	—	.10
Jamaica, grinding .....	.37	—	.38
Cochin ABC and lemon .....	.09 1/2	—	.10
Mace, Siau, No. 1 .....	.44	—	.45
Banda, No. 1 .....	.45	—	.46
Batavia .....	.29	—	.30
Nutmegs, 110s .....	.20	—	.21
75s-80s .....	.27	—	.28
Paprika .....	.15	—	.20
Pepper, Black Sing. ....	.09 1/2	—	.10
White .....	.13 1/2	—	.14
Peppers, Red, Mombasa ..	.32	—	.33
Cherries .....	.18	—	.18 1/2
Bombay .....	.15 1/2	—	.16
Japan .....	.37	—	.38
Pimento, Select .....	.04 1/2	—	.04 3/4

## WAXES

Bayberry .....	.19 1/2	—	.22
Bees, white .....	.36	—	.39
Yellow, refined .....	.25	—	.30
Crude .....	.19	—	.27
Candelilla .....	—	—	.35
Carnauba, Flor. ....	.48	—	.48
No. 1, North Country ..	.44	—	.46
No. 2, North Country ..	.23	—	.25
No. 3, Fatty Gray .....	.17	—	.18
No. 3, Chalky .....	.16	—	.17
Ceresin Yellow, 200 lb. bags.	.07 1/2	—	.08 1/2
White .....	.09	—	.10
Japan, 200 lb. cases .....	.16 1/2	—	.17
Montan, crude .....	.04 1/2	—	.05
"Bleached .....	—	—	—
Ozokerite, brown, hard ..	.22	—	.24
Green, hard .....	.25	—	.26
Refined, yellow .....	—	—	—
Paraffin, ref'd 128-130 deg.m.p.	.03 1/2	—	.04 1/2
Ref'd 118-120 deg. ....	.03 1/2	—	.03 3/4
Stearic Acid, See Animal Oils	—	—	—
*Nominal	—	—	—

Almond, Bitter, U.S.P. ....	.475	—	.525
Bitter, f.f. P.A. ....	.525	—	.550
Artificial, U.S.P., See Aromatic Chems.	—	—	—
Sweet .....	.50	—	.60
Peach Kernel (Apricot) ..	.25	—	.27
Amber, Crude .....	1.00	—	1.05
Rectified .....	1.15	—	1.20
Angelica Root .....	38.00	—	40.00
Seed .....	—	—	—
Anise Tech., 16 2-3 lb. cans.	.50	—	.55
U. S. P. ....	.60	—	.65
Bay .....	2.50	—	2.75
Bergamot, 25 lb. coppers ..	4.40	—	4.50
Artificial .....	2.50	—	2.75
Birch Tar, Rect. ....	—	—	2.75
Crude .....	—	—	1.85
Bois de Rose .....	3.00	—	3.50
Cade .....	.50	—	.60
Caluput, Native .....	.75	—	.80
U.S.P. ....	.80	—	.85
Calamus .....	4.75	—	5.00
Camphor, by-product .....	.11 1/2	—	.12
Japanese white .....	.19	—	.20
Chinese, white .....	.17	—	.18
Cananga, Native .....	2.75	—	3.00
Rectified .....	3.50	—	4.00
Caraway, Rectified .....	2.25	—	2.40
Crude .....	1.90	—	2.15
Cardamom, U.S.P. ....	13.00	—	14.00
Carvol .....	3.15	—	3.25
Cassia Technical, 75-95 p.c.	1.25	—	1.30
Redistilled, U.S.P. ....	1.75	—	1.80
Cedar Leaf, 50 lb. cans. ..	.85	—	.90
Cedar Wood, light .....	.28	—	.30
Celery .....	9.00	—	10.00
Cinnamon, Ceylon, heavy ..	12.00	—	13.00
Leaf .....	—	—	2.00
Citronella, Ceylon .....	.53	—	.54
Java .....	—	—	.75
Cloves, 50 lb. cans. ....	1.95	—	2.00
Bottles, 5 lb. ....	2.00	—	2.10
Copaiba, U.S.P. ....	.40	—	.45
Coriander, U.S.P. ....	—	—	11.50
Croton, 25 lb. tins .....	—	—	1.10

Cubebs, U.S.P., 5 lb. bot. ....	6.50	—	6.75
Cumin .....	4.50	—	4.75
Dill .....	—	—	4.00
Erigeron .....	1.75	—	1.90
Eucalyptus, Australian, U.S.P.	.35	—	.38
Fennel, sweet, U.S.P. ....	1.65	—	1.70
Geranium, Rose Algerian ..	8.75	—	9.25
Bourbon, (Reunion) .....	5.50	—	6.00
Turkish .....	—	—	4.25
Ginger .....	5.25	—	5.50
Gingergrass .....	2.75	—	3.00
Hemlock, 40 lb. cans. ....	—	—	1.00
Juniper Berries, rect. ....	1.35	—	1.45
Wood .....	.50	—	.55
Lavender Flowers, U.S.P. ....	3.25	—	4.50
Spike, Spanish .....	.80	—	.90
Lemon, Italian, 25 lb. cop. ..	.75	—	.85
American .....	—	—	.75
Lemongrass, Native .....	.95	—	1.00
Limes, Expressed .....	3.00	—	3.25
Distilled .....	.50	—	.52
Linaloe, 80 lb. cases .....	2.40	—	2.50
Mace, distilled .....	1.00	—	1.10
Mirbane, ref., see Aromatic Chemicals	—	—	—
Mustard, natural, 1 lb. bot. ..	—	—	17.00
Artificial .....	—	—	3.00
Neroli, Bigarade .....	8.00	—	20.00
Petale .....	10.00	—	25.00
Artificial .....	10.00	—	14.00
Nutmeg, U.S.P. ....	1.00	—	1.10
Orange, bitter .....	2.15	—	2.20
Sweet, West Indian .....	2.65	—	2.75
Italian, 25 lb. cop. ....	3.10	—	3.25
American .....	—	—	3.25
Origanum, 55 lb. cans. ....	.25	—	.30
Parsley .....	5.00	—	5.50
Patchouli .....	9.00	—	11.00
Pennyroyal, domestic .....	—	—	1.75
Imported .....	1.10	—	1.20
Peppermint Natural, tins. ....	1.85	—	1.95
Redistilled, U.S.P. ....	2.15	—	2.20
Japanese, thrice rect. ....	1.60	—	1.65
Petit Grain, So. America. ....	1.65	—	1.70
French .....	7.50	—	8.00
Pinus Sylvestris .....	—	—	1.75
Pumilio, U.S.P. ....	—	—	3.00

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Rose, French .....	oz.	—	10.00
Bulgarian .....	oz.	7.50	8.00
Artificial .....	oz.	2.50	3.00
Rosemary, U.S.P. ....	lb.	.55	.60
Tech. ....	lb.	.40	.50
Rue .....	lb.	3.25	3.75
Sandalwood, East Indian..	lb.	7.10	7.25
West Indian .....	lb.	—	4.00
Sassafras, natural, 50 lb. cans	lb.	—	.85
Artificial .....	lb.	.45	.46
Savin .....	lb.	4.00	4.25
Spearmint .....	lb.	3.00	3.50
Spruce, 40 lb. cans .....	lb.	—	1.00
Tansy, Amer. ....	lb.	—	11.00
Tar, bbls. ....	gal.	.28	.30
Refined, U. S. P. ....	gal.	—	1.00
Thyme, red, U.S.P. ....	lb.	1.05	1.15
White, U.S.P. ....	lb.	1.15	1.25
Crude .....	lb.	.95	1.00
Vetivert, Bourbon .....	lb.	4.75	6.00
Java .....	lb.	17.50	24.00
Wine, heavy .....	lb.	—	2.75
Wintergreen, sweet birch..	lb.	2.25	2.40
Gaultheria Genuine .....	lb.	7.00	8.00
Synthetic, U.S.P., bulk..	lb.	.35	.40
Wormseed Baltimore .....	lb.	3.00	3.15
Wormwood Dom. ....	lb.	11.50	12.00
Ylang Ylang, Bourbon .....	lb.	9.00	10.00
Manila .....	lb.	22.50	30.00
Artificial .....	lb.	—	10.00

## Oleoresins

Aspidium (Malefern) .....	lb.	2.75	3.00
Capsicum .....	lb.	2.50	2.75
Cubeb .....	lb.	6.40	6.50
Ginger .....	lb.	2.60	2.75
Malefern .....	lb.	2.75	3.00
Mullein (so-called) .....	lb.	—	4.00
Orris .....	lb.	—	18.00
Pepper, black .....	lb.	4.50	5.00
Vanilla .....	lb.	8.50	9.50

## Perfumers' Sundries

Almond Meal .....	lb.	.28	.30
Ambergris, black .....	oz.	—	8.00
Ambergris, gray .....	oz.	—	25.00
Bergamot Peel .....	lb.	—	1.25
Chalk, precipitated .....	lb.	.0234	.0314
Civet .....	oz.	2.75	3.00
Lanolin hydrous .....	lb.	.12	.15
Lanolin anhydrous .....	lb.	.14	.15
Musk Cab., pods. ....	oz.	16.00	17.00
Musk, Cab., grains. ....	oz.	25.00	26.00
Musk, Tonquin, grains. ....	oz.	32.00	33.00
Musk, Tonquin, pods. ....	oz.	17.00	19.00
Oak Moss .....	lb.	.40	.50
Orris Root, Florentine, whole	lb.	.0814	.09
Verona .....	lb.	—	.07
Powdered, Gran. ....	lb.	.08	.12
Rice Starch .....	lb.	.06	.08
Sandalwood, chips and ground	lb.	.35	.40
Talc, Italian .....	ton	38.00	40.00
Talc, French .....	ton	20.00	25.00
Talc, domestic .....	ton	17.00	18.00

## Aromatic Chemicals

## Natural Derivatives

Anethol .....	lb.	1.75	2.50
Borneol .....	lb.	—	3.50
Citronellal .....	lb.	1.75	2.00
Citral .....	lb.	3.00	3.50
Eucalyptol .....	lb.	.80	.82
Eugenol .....	lb.	3.25	3.50
Geraniol .....	lb.	2.50	3.25
Iso-Eugenol .....	lb.	4.00	4.25
Linalool .....	lb.	4.50	5.50
Menthhol .....	lb.	5.75	6.00
Rhodinol .....	lb.	13.00	15.00
Safrol .....	lb.	.55	.60

## Synthetic Aromatics

Acetophenone, C.P. ....	lb.	3.50	4.00
Amyl Acetate, C.P. ....	lb.	.50	.75
Amyl Butyrate .....	lb.	2.00	2.10
Amyl Formate .....	lb.	1.75	2.00
Amyl Salicylate, 100 lb. cys.	lb.	1.25	1.40
Anisic Aldehyde .....	lb.	4.00	4.25
Benzaldehyde, U.S.P. ....	lb.	1.40	1.50
Free From Chlorine .....	lb.	1.60	1.70
Benzyl Acetate .....	lb.	1.15	1.20
Benzyl Alcohol .....	lb.	1.10	1.25
Benzyl Benzoate .....	lb.	1.35	1.50
Benzyl Formate .....	lb.	3.50	3.75
Bromstyrol .....	lb.	—	4.50
Cinnamic Acid .....	lb.	2.75	3.00
Cinnamic Alcohol .....	lb.	15.00	16.00
Cinnamic Aldehyde .....	lb.	3.25	4.00
Citronellol .....	lb.	8.00	10.00
Coumarin .....	lb.	3.00	3.25
Diethyl Phthalate .....	lb.	.85	.90
Diphenyl oxide .....	lb.	.85	.90
Ethyl Cinnamate .....	lb.	5.00	5.50
Geranyl Acetate .....	lb.	5.25	5.50
Heliotropin .....	lb.	2.75	3.00
Indol, C. P. ....	lb.	10.00	11.00
Linalyl Acetate .....	oz.	8.00	9.00
Linalyl Benzoate .....	lb.	14.00	15.00
Methyl Anthranilate .....	lb.	4.25	4.50
Methyl Cinnamate .....	lb.	5.00	5.50
Methyl Paracresol .....	lb.	8.00	9.00
Methyl Salicylate .....	lb.	.35	.37
Resale, 50 lb. cases .....	lb.	.33	.34
Mirbane, rect., drums extra.	lb.	.10	.11
Musk Ambrette .....	lb.	12.00	14.00
Musk Ketone .....	lb.	9.00	10.00
Musk Xylene .....	lb.	2.25	2.75
Nerolin .....	lb.	2.25	2.50
Phenylacetaldehyde .....	lb.	7.50	9.00
Phenylacetic Acid .....	lb.	2.50	3.00
Phenylethylalcohol .....	lb.	4.00	5.00
Terpenyl Acetate .....	lb.	1.65	1.75
Terpineol, C. P. ....	lb.	.50	.60
Vanillin .....	oz.	—	.50
Violet, artificial (Itonone)...	lb.	7.50	8.00
Yara Yara Crystals .....	lb.	2.25	2.50

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# Imports of Chemicals, Dyestuffs, Drugs, etc.

Imports at N. Y. from May 20 to May 27

**ACIDS**—1 cs., Order, London; **Cresylic**, 25 drs., Order, Hamburg; **Lactic**, 117 csks., Knauth, Nachod & Kuhne, Rotterdam; **Naphthenic**, 1 bx., W. C. De Leeuw, Curacao; **Phosphoric**, 121 pkgs., Chemical National Bank, Hamburg; **Tartaric**, 150 csks., W. Benkert & Co., Rotterdam; 120 csks., Chemical National Bank, Rotterdam

**AGAR AGAR**—5 bls., McKesson & Robbins, London

**AMMONIUM SALTS**—2 cs., Caldwell & Co., Antwerp; 2 cs., Order, London; **Alum**, 150 bgs., Roessler & Hasslacher Chemical Co., Rotterdam; **Bromide**, 50 cs., C. B. Richard & Co., Hamburg; 20 cs., Schering & Glatz, Hamburg; **Carbonate**, 20 csks., Brown Bros. & Co., Liverpool; **Fluoride**, 57 csks., Jungman & Co., Hamburg; **Muriate**, 29 csks., Brown Bros. & Co., Liverpool; **Persulphate**, 20 kgs., J. L. & D. S. Riker, Inc., Liverpool

**ANNATTO**—50 bgs., W. Schall & Co., Jamaica; 65 bgs., Order, Jamaica

**ANTIMONY**—3 cs., L. D. Block & Co., Yokohama; **Sulfide**, 7 cs., P. O. Nelson Co., Southampton

**ARGOLS**—20 csks., Royal Baking Powder Co., Leghorn

**ARSENIC**—50 csks., Order, Hamburg; 240 cs., Meteor Products Co., Shimidzu

**BALSAM**—29 cs., Order, Para; 50 drs., Brown Bros. & Co., London; **Copaiba**, 3 drs., Ultramarine Corp., Trinidad

**BARIUM SALTS**—**Carbonate**, 24 csks., Order, Hamburg; **Chloride**, 30 csks., Irving National Bank, Hamburg; **Peroxide**, 92 drs., Mallinckrodt Chemical Works, London; 36 drs., Order, Hamburg

**BARKS**—18 bgs., S. B. Penick & Co., Hamburg; **Quillay**, 30 bgs., Order, Hamburg

**BARYTES**—100 bbls., G. Kelley, Hamburg; 10 bbls., Order, Hamburg

**BEANS**—**Vanilla**, 30 cs., Dodge & Olcott, Vera Cruz; 101 cs., Dodge & Olcott, Mar- seilles; 28 cs., Thurston & Braidich, Mar- seilles; 10 cs., J. Manheimer, Mar- seilles; 16 cs., G. Lueders & Co., Mar- seilles; 35 cs., G. Lueders & Co., Mar- seilles; 61 cs., Order, Mar- seilles

**BERRIES**—**Cubeb**, 17 bgs., A. Joensson & Co., London; **Juniper**, 100 bgs., Order, Leg- horn

**BITTERS**—550 cs., 1,000 hlf. cs., J. W. Wupper- man, Trinidad

**BROMIDES**—300 cs., 70 csks., Order, Ham- burg

**BRONZE POWDER**—9 cs., American Express Co., Hamburg

**BUTTON LAC**—80 cs., Order, Calcutta

**CAMPHOR**—200 cs., Suzuki & Co., Shanghai; 50 cs., N. Y. Trust Co., Kobe; 50 cs., Na- tional City Bank, Kobe; 100 cs., Stanley Jordan & Co., Kobe; 100 cs., New York Trust Co., Kobe; 100 cs., Mechanics & Metals National Bank, Kobe; 50 cs., Equi- table Trust Co., Kobe; 100 cs., Delbourg & Arias, Kobe; 50 cs., J. D. Lewis, Kobe; 100 cs., C. Pfizer & Co., Kobe; 100 cs., Delbourg & Arias, Kobe; 300 cs., Mitsui & Co., Kobe; 100 cs., Order, Kobe

**CARBAZOL**—12 csks., A. Klipstein & Co., Liverpool

**CARBON**—**Decolorizing**, 110 bgs., L. A. Salo- mon & Bros., Rotterdam

**CHALK**—300 tons, Baring Bros. & Co., Lon- don; 200 bgs., C. B. Chrystal & Co., Ant-werp; 1,000 bgs., Chatham & Phenix Na- tional Bank, Havre; 500 csks., L. A. Salo- mon & Bros., Rotterdam; 100 bgs., 2,650,000 kilos, Taintor Trading Co., Dunkirk; **Precipitated**, 250 bgs., H. J. Baker & Bros., Bristol; 100 bgs., Brown Bros. & Co., London

**CHEMOZONE**—16 cs., Order, London

**CINCHONINE**—10 cs., R. W. Greeff & Co., Rotterdam

**CLAY**—100 tons, C. Hill & Sons, Inc., Bristol; 20 cs., Mulford Carey Conklin Co., Liverpool; 3 cs., Nara Trading Co., Kobe; 1 cs., Redden & Martin, Hamburg; **Burnt**, 210 csks., H. A. Robinson & Co., Hull; **China**, 100 csks., English China Clay Sales Corp., Bristol

**COCOA BUTTER**—935 bgs., First Federal Foreign Banking Corp., Hamburg; 230 bls., W. Van Doorn, Rotterdam; 537 bls., Order, Hamburg

**COLORS**—1 cse., Bernard Judae & Co., Southampton; 29 csks., Geigy Co., Havre; 6 pkgs., Pitt & Scott, Havre; 1 cse., B. F. Drakenfeld & Co., Liverpool; 8 cs., S. Stern, Hamburg; 1 cse., B. F. Draken- field & Co., Liverpool; 2 cs., A. Mc- Nulty, Liverpool; 5 kgs., Order, Liverpool; 33 drs., Ciba Co., Antwerp; 21 csks., Sandoz Chemical Works, Antwerp; 1 csk., Irving National Bank, Antwerp; 5 csks., Andrey- kovitch & Dunk, Antwerp; 1 csk., L. B. Fortner Co., Antwerp; 1 csk., Sandoz Chemical Works, Antwerp; 6 csks., H. A. Metz & Co., Rotterdam; 2 csks., Equitable Trust Co., Rotterdam; 5 csks., Irving Na- tional Bank, Rotterdam; 4 csks., 1 cse., Kuttroff, Pickhardt & Co., Rotterdam; 6 csks., National City Bank, Rotterdam; 4 csks., Equitable Trust Co., Rotterdam; 1 csk., Commonwealth Color & Chemical Co., Rotterdam; 2 cs., Franklin Import & Ex- port Co., Rotterdam; 1 csk., 1 cse., American Aniline Products Co., Rotterdam; 1 csk., American Aniline Products Co., Rotterdam; 8 csks., Hensel Bruckmann & Lorbacher, Rotterdam; 12 csks., Kuttroff, Pickhardt & Co., Rotterdam; 40 csks., Textile Alliance, Rotterdam; 1 cse., S. Stern, Hamburg; 2 cs., C. B. Richard & Co., Hamburg; 1 csk., B. F. Drakenfeld & Co., Bremerhaven; 1 cse., Order, London; 4 cs., Favor Ruhl & Co., Hamburg; 2 csks., Franklin Import & Export Co., Hamburg; 4 csks., F. Henjes, Jr., Hamburg; **Alizarine**, 1 csk., American Exchange National Bank, Rotterdam; 9 csks., American Exchange National Bank, Rotterdam; 3 csks., Kuttroff, Pickhardt & Co., Rotterdam; 4 csks., Textile Alliance, Rotterdam; **Bronze**, 15 cs., P. C. Kuyper & Co., Bremerhaven; **Coal Tar**, 4 csks., American Exchange National Bank, Rotterdam; 1 csk., American Exchange National Bank, Rotterdam; **Earth**, 20 csks., Irving National Bank, Rotterdam; **Earth**, 20 csks., Irving National Bank, Hamburg; 31 csks., Pez- andie & Sperle, Bremerhaven; **Indigo Paste**, 8 csks., Kuttroff, Pickhardt & Co., Rotterdam

**COPPER OXIDE**—30 drs., C. Hardy & Ru- perty, Hamburg

**COPRA**—17 bgs., Ultramarine Corp., Bahia de Caraguez; 20 bgs., Atlantic Fruit Co., Port Antonio; 26 bgs., Procter & Gamble Co., Trinidad; 659 bgs., Order, Grenada; 2 bgs., C. L. Plunkett, Kingston

**CYANIDE PRECIPITATE**—16 bxs., South American Development Co., Guayaquil

**DEXTRIN**—300 bgs., F. G. Hall Trading Corp., Hamburg

**DICHLOROETHYLENE**—1 csk., Roessler & Hasslacher Chemical Co., Hamburg

**DIVI DIVI**—500 bgs., S. D. C. Henriquez, Rio Hacha

**EARTH**—1 cse., M. Kiehler, Piraeus; 40 csks., J. Goebel & Co., Bremerhaven; **Red**, 93 csks., Order, Bristol; 58 csks., Reichard Coulston, Inc., Bristol; 320 bgs., 50 bbls., G. Collins & Co., Bristol; 5 bbls., United Fruit Co., Bristol

**EPSOM SALTS**—3,950 bgs., Superfos Co., Hamburg; 150 bgs., Order, Hamburg; 600 bgs., Superfos Co., Hamburg; 1,000 bgs., H. J. Baker & Bros., Hamburg

**ERGOT**—7 bgs., Anderson & Hillier, Ham- burg

**EXTRACT**—**Archil Liquid**, 10 csks., Order, London; **Logwood**, 110 csks., British Dye- wood Co., Jamaica; **Malt**, 100 cs., Perfec- tion Produce Co., London; **Quebracho**, 12,710 bgs., J. T. Crosby International Product Co., Buenos Aires; **Rennet**, 5 bbls., Judson Freight Forwarding Co., Copenhagen; 1 bbl., F. B. Vandegrift & Co., Copenhagen; **Sumac**, 13 csks., American Dyewood Co., Glasgow

**FLOWERS**—48 csks., A. Stallman & Co., Mar- seilles; **Insect**, 25 bls., Stallman & Co., Tientsin; 25 bls., W. Benkert & Co., Rot- terdam

**FLUOR SPAR**—500 csks., Roessler & Has- slacher Chemical Co., Hamburg

**FULLER'S EARTH**—250 bgs., L. A. Salomon & Bros., Bristol; 3 bbls., C. L. Constant & Co., Halifax

**GELATINE**—5 cs., Bendix Paper Co., Ham- burg; 21 cs., P. C. Zuhlik, Rotterdam; **Powdered**, 35 kgs., 38 bbls., H. A. Sinclair, Rotterdam

**GINGERINE**—2 cs., Order, London

**GLAUBER SALT**—2 csks., Order, Hamburg; 129 bbls., Iscoga Chemical Co., Hamburg

**GLUE**—268 bgs., Order, Bristol; 1 cse., J. Schwab, Havre; 20 bls., British Bank of South America, Antwerp

**GLUESTOCK**—25 bbls., 12 cs., 30 bls., E. E. Royers & Co., Mar- seilles; 28 bgs., Order, Mar- seilles

**GUM**—71 cs., Order, London; 50 cs., Order, Mar- seilles; 1 cse., J. Filipe, Lisbon; **Chicle**, 17 bls., G. Amsinck & Co., Buenaventura; 220 bgs., Order, Ciudad Bolivar; **Copal**, 50 cs., 64 bgs., L. C. Gillespie & Son, Singa- pore; 70 bgs., Baring Bros. & Co., Singa- pore; 320 bgs., Patterson Boardman & Knapp, Singapore; 50 bgs., G. W. S. Pat- terson & Co., Liverpool; 100 cs., Brown Bros. & Co., Singapore; 100 bgs., Smith & Schipper, Singapore; 25 cs., Baring Bros. & Co., Singapore; 198 bgs., Internat'l Bank- ing Corp., Singapore; 150 bgs., L. Little- john & Co., Singapore; 544 bgs., Chemical National Bank, Antwerp; 500 bgs., Inter- national Banking Corp., Antwerp; 476 bgs., Order, Antwerp; **Damar**, 100 cs., F. R. Keuleman & Co., Batavia; 1,000 cs., Inter- national Banking Corp., Batavia; 50 cs., Order, Batavia; 615 bgs., France Campbell & Darling, Singapore; 128 bgs., Guaranty Trust Co., Singapore; 128 bgs., Patterson Boardman & Knapp, Singapore; 100 cs., Na- tional Varnish Co., Singapore; 100 cs., Order, Singapore; 50 cs., G. H. Lincks, Rotter- dam; 210 bgs., 50 cs., Baring Bros. & Co., Singapore; 100 cs., Patterson Boardman & Knapp, Singapore; 100 cs., L. C. Gillespie & Son, Singapore; 150 cs., Guaranty Trust Co., Singapore; 100 cs., Order, Singapore; **Gamboge**, 5 cs., Order, London; **Perillo**, 240 bls., W. Wrigley, Jr., Puerto Colombia; **Sandarac**, 21 bls., 5 csks., Chatham & Phoenix National Bank, Mar- seilles

**HOPS**—10 bls., Hensel Bruckmann & Lor- bacher, Bremerhaven

**INSECTICIDE**—2 cs., Order, London

**IODINE**—46 kgs., Order, London

**IRON OXIDE**—126 bbls., E. M. & F. Waldo, Malaga; 200 bbls., C. J. Osborn Co., Malaga; 127 bbls., Reichard, Coulston Co., Malaga; 10 csks., J. A. McNulty, Liverpool; 50 csks., J. A. McNulty, Liverpool; 433 csks., Three Star Line, Malaga; 166 bbls., Order, Malaga; 250 bbls., W. Schall & Co., Malaga

**KAPOC**—272 bls., Elliot Mills, Inc., Sama- rang; 552 bls., A. S. Cookman & Co., Samarang; 514 bls., Smith & Schipper, Samarang; 1031 bls., Boston Excelsior Co., Surabaya

**KATANOL**—1 csk., Commonwealth Color & Chemical Co., Rotterdam

**LEAVES**—**Belladonna**, 144 bls., Chemical Na- tional Bank, Hamburg; **Eucalyptus**, 18 bgs., Order, Alicante; **Gayuba**, 279 bgs., American Express Co., Alicante; **Jaborandi**, 36 bls., Herbst Bros., Parnahyba; **Patchouli**, 15 bls., Order, Penang

**LICORICE**—9 cs., American Shipping Co., Hamburg; **Paste**, 440 cs., H. Utard, Tarrag- ona; **Wood**, 30 cs., Order, Mar- seilles

**LIME JUICE**—225 cs., J. P. Smith & Co., London; 950 cs., J. P. Smith & Co., London

**LITHOPONE**—100 bbls., Brown Bros. & Co., Hamburg

**MANGANESE SALTS**—300 cs., De Courcy Browne, Havre; **Chloride**, 27 csks., Order, Hamburg

**MAGNESITE**—**Calcined**, 6 drs., Frazar & Co., Glasgow

**MAGNESIUM SALTS**—**Carbonate**, **Calcined**, 40 cs., Order, Hull; **Chloride**, 122 csks., H. J. Baker & Bros., Hamburg; 346 drs., Brown Bros. & Co., Hamburg; 360 drs., A. Klip- stein & Co., Hamburg

**MENTHOL**—50 cs., Equitable Trust Co., Kobe; 50 cs., Cundill & Co., Kobe; 50 cs., Rockhill & Victor, Kobe; 50 cs., Order, Kobe

**NAPHTHALENE**—600 bgs., Order, Hamburg; 549 bgs., Order, Hamburg

**OCHE—175 cks.**, J. Lee Smith & Co., Marseilles; 180 cks., American Exchange National Bank, Marseilles; 216 cks., Reichard Coulston, Marseilles; **Red**, 40 cks., J. L. Smith & Co., Hull; 8 cks., J. L. Smith & Co., Hull; 45 cks., J. L. Smith & Co., Hull

**OILS—Cod**, 185 cks., Swan & Finch Co., St. Johns; 145 cks., Badcock & McLeod, St. Johns; **Cod liver**, 25 bbls., Badcock & McLeod, Halifax; **Herring**, 3,000 cks., Order, Yokohama; **Linseed**, 290 bbls., Order, Bristol; 199 bbls., Order, Hull; 300 bbls., Order, Southampton; 1,463 bbls., Order, London; 890 tons, 300 bbls., Order, Hull; 174 bbls., Elbert & Co., Rotterdam; 573 bbls., Fontana Bros., Rotterdam; 70 bbls., Netherlands Chemical Co., Rotterdam; 70 bbls., Netherlands Chemical Co., Rotterdam; 697 bbls., Order, Rotterdam; 50 bbls., Atlantic National Bank, Hull; 775 tons, Guaranty Trust Co., Hull; **Lubricating**, 50 bbls., W. B. Dick Co., London; **Mineral**, 75 bbls., Order, Marseilles; **Olive**, 20 bbls., A. E. Rittwagen Co., Tarragona; 105 cks., A. E. Yessierun, Tarragona; 107 pkgs., Order, Tarragona; 100 bbls., First National Bank of Boston, Seville; 25 bbls., Irving National Bank, Seville; 300 cks., National Park Bank, Malaga; 58 bbls., 400 cks., A. E. Rittwagen, Malaga; 20 cks., Toquin Bulleker, Malaga; 100 cks., F. N. Giavi, Malaga; 250 cks., East River National Bank, Malaga; 100 bbls., Scaramelli & Co., Malaga; 100 bbls., Irving National Bank, Malaga; 200 cks., Equitable Trust Co., Malaga; 100 bbls., Order, Malaga; 3 pkgs., L. Buyukas, Piraeus; 100 cks., East River National Bank, Malaga; 100 cks., East River National Bank, Malaga; 100 bbls., A. E. Rittwagen & Co., Malaga; 100 bbls., State Bank of New York, Malaga; 25 bbls., East River National Bank, Malaga; 150 bbls., Irving National Bank, Alger; 10 bbls., C. Brigandi, Messina; 9 pkgs., Hudson Forwarding & Shipping Co., Messina; 6 bbls., C. Tedesio, Messina; 10 bbls., V. Mitella, Messina; 2 bbls., F. Stella, Messina; 1,000 cks., F. Romeo & Co., Leghorn; 500 cks., East River National Bank, Leghorn; 12 cks., 4 bbls., J. De Grandmont & Co., Leghorn; 100 bbls., Order, Leghorn; 55 bks., Order, Leghorn; 2 bbls., Davies, Turner & Co., Marseilles; 25 bbls., Baring Bros. & Co., Malaga; 400 cks., F. H. Liggett & Co., Malaga; 25 cks., Bridgetts & Co., Malaga; 70 bbls., Equitable Trust Co., Malaga; 50 bbls., Lecas & Drivas, Piraeus; 8 cks., P. Chronos, Piraeus; 51 pkgs., Colombo Co., Piraeus; 96 cks., 26 cks., 20 bbls., Order, Piraeus; 50 cks., Falcon Packing Co., Marseilles; 15 bbls., Guaranty Trust Co., Marseilles; 500 bbls., W. Schall & Co., Marseilles; 200 bbls., Mechanics & Metals National Bank, Marseilles; 500 cks., J. P. Smith & Co., Marseilles; 25 cks., Panama R. R. & S. S. Co., Marseilles; 75 cks., American Express Co., Marseilles; 125 bbls., Order, Marseilles; 142 cks., J. Filipe, Lisbon; 50 cks., Order, Grasse; 25 cks., E. R. Squibb & Sons, Nice; 530 cks., 105 cks., Order, Nice; **Sulfur**, 50 bbls., Brown Bros. & Co., Leghorn; 30 bbls., Order, Leghorn; 100 bbls., Brown Bros. & Co., Leghorn; 100 bbls., First National Bank Boston, Leghorn; **Palm**, 314 cks., African Eastern Trading Co., Calabar; 49 cks., Order, Calabar; 460 cks., Order, Buruki; 46 cks., J. H. Raynor & Co., Lagos; 50 cks., T. Fehr, Lagos; 124 cks., Order, Liverpool; 62 cks., Order, Hull; 299 bbls., Order, Rotterdam; **Perilla**, 200 bbls., Balfour, Williamson & Co., Tientsin; **Rape**, 750 bbls., Vacuum Oil Co., Hull; 5 bbls., Netherlands Chemical Co., Rotterdam; **Rubber Seed**, 50 bbls., Order, Singapore; **Sperm**, 25 bbls., Order, Glasgow; **Wood**, 935 bbls., Mitsui & Co., Hankow; 600 bbls., Mitsui Shoji Kaisha, Hankow; 250 cks., Bank of New York, Hankow; 12,000 piculs, L. C. Gillespie & Sons, Hankow

**OILS, ESSENTIAL—2 cks.**, Bernard Judae & Co., Southampton; 6 bbls., Order, Malaga; 1 drum, Order, Hamburg; 1 cse., Order, Hamburg; 21 cks., Cheranig, Havre; 1 cse., Roure Bertrand Fils, Havre; 2 cks., Rockhill & Victor, Havre; 6 cks., 1 drum, Order, London; 17 cks., Polaks Frutal Works, Rotterdam; 10 cks., Whitaker, Clark & Daniels, Messina; 166 cks., Order, Messina; 1 drum, R. Bordas, Alicante; 7 drs., G. Lueders & Co., Alicante; 13 cks., Lautier Fils, Havre; 3 bbls., Fernandez & Sperrle, Havre; 5 cks., A. D. Shaw & Co., London; 14 cks., T. Nevin, London; 10 cks., Brown Bros. & Co., London; 3 cks., Order, London; 8 cks., Lautier Fils, Marseilles; 7 pkgs., Order, Grasse; **Almond**, 11 cks., Order, London;

**Bergamot**, 50 cks., G. Lueders & Co., Messina; **Cassia**, 30 cks., Order, Hongkong; **Citronella**, 18 drs., Catz American Co., Batavia; 30 drs., F. R. Henderson & Co., Batavia; 10 drs., F. R. Henderson & Co., Sourabaya; 25 drs., Goldman Sachs & Co., Colombo; 7 drs., W. Brandt's Sons & Co., Colombo; 32 drs., Order, Colombo; **Eucalyptus**, 1 bx., Arkell & Douglas, Melbourne; **Geranium**, 9 cks., Bank of Manhattan Co., Marseilles; **Lavender**, 11 cks., Fritzsche Bros., Grasse; **Lemon**, 20 cks., E. J. Burke, Piraeus; 200 cks., Order, Piraeus; 82 cks., Brown Bros. & Co., Messina; **Orange**, 50 cks., Brown Bros. & Co., Messina; **Ylang Ylang**, 2 cks., Morana, Inc., Grasse

**OPIMUM—50 cks.**, Order, Piraeus  
**OZOKERIT—134 bbls.**, Order, Hamburg  
**PALMYRA FIBRE—342 ballots**, Order, Colombo

**PAW PAW JUICE—10 cks.**, Carter Cummings & Co., Colombo; 16 cks., Chase National Bank, London

**PLUMBAGO—311 bbls.**, Brown Bros. & Co., Colombo; 20 bbls., H. W. Peabody & Co., Colombo; 170 bbls., Brown Bros. & Co., Colombo; 50 bbls., G. E. Pettinos, Colombo

**POTASSIUM SALTS—52 cks.**, American Express Co., Hamburg; **Alum**, 10 cks., Chemical National Bank, Hamburg; 43 bgs., Irving National Bank, Hamburg; 100 cks., Order, Hamburg; **Bromide**, 200 bks., C. Hardy & Rupert, Hamburg; 50 cks., Order, Hamburg; **Carbonate**, 51 bbls., Brown Bros. & Co., Hamburg; 36 cks., Roessler & Hasslacher Chemical Co., Hamburg; **Caustic**, 10 cks., General Chemical Co., Gothenburg; 15 cks., Mallinckrodt Chemical Works, Gothenburg; 75 drs., Peters, White & Co., Hamburg; 77 cks., Merck & Co., Gothenburg; 50 cks., Mallinckrodt Chemical Works, Gothenburg; **Chloride**, 6,400 bgs., Societe de Portasses de Alsace, Dunkirk; 6,500 bgs., Order, Dunkirk; 6,100 bgs., Societe de Portasses de Alsace, Dunkirk; 2,847 bgs., Societe de Portasses de Alsace, Dunkirk; **Cyanide**, 67 cks., Roessler & Hasslacher Chemical Co., Hamburg; **Muriate**, 1,000 bgs., A. Vogel, Bremerhaven; **Perchlorate**, 68 cks., Order, London; **Pernanganate**, 10 drs., Jungman & Co., Hamburg; **Prussiate**, 20 cks., A. Klipstein & Co., Antwerp; 20 cks., Order, Copenhagen; 8 bbls., 1 cse., Order, Hamburg; **Sulfate**, 500 bgs., A. Vogel, Hamburg; 1,000 bgs., A. Vogel, Bremerhaven

**PUMICE STONE—98 cks.**, C. Kubisch, Hamburg

**PYRIDINE—9 drs.**, Order, Rotterdam  
**QUIBRACHO WOOD—24,322 pcs.**, Tannin Corp., Santa Fe

**QUICKSILVER—500 bottles**, Order, London; 6 bottles, Order, London

**QUININE—65 cks.**, R. W. Greff & Co., Rotterdam

**RENNET—10 kgs.**, Funch, Edye & Co., Copenhagen; **Powder**, 1 cse., F. B. Vandegrieff & Co., Copenhagen

**ROOTS—6 bbls.**, A. Stallman & Co., Hamburg; 8 bbls., J. Schoenegger, Hamburg; 9 bbls., 2 bbls., Peck & Velsor, Hamburg; 2 bbls., S. B. Penick & Co., Hamburg; 8 bbls., Anderson Hillier & Co., Hamburg; **Belladonna**, 55 bgs., Chemical National Bank, Hamburg; **Broom**, 21 bbls., H. Triest & Co., Vera Cruz; **Doggrass**, 100 bbls., First National Bank, Hamburg; **Ipecac**, 11 bbls., H. R. Griffin, Rio de Janeiro; **Orris**, 74 bgs., Order, Leghorn; **Soap**, 5 bgs., Order, Constantinople; **Sarsaparilla**, 5 pkgs., Order, Vera Cruz  
**SACCHARIN—2 cks.**, Canadian Foreign Agency, Rotterdam; 5 cks., Mallinckrodt Chemical Works, Rotterdam

**SAFFRON—11 bbls.**, Hammer & Co., Tampico; 11 cse., Strohmeier & Arpe Co., Alicante  
**SAL AMMONIAC—34 cks.**, Superfos Co., Hamburg; 40 cks., Order, Hamburg; 41 cks., Order, Hamburg; 22 bbls., Order, Hamburg; 100 drs., Chemical National Bank, Hamburg; 23 cks., Globe Shipping Co., Hamburg; 66 bbls., Isacora Chemical Co., Hamburg; 11 cks., Blackburn Trading Corp., Hamburg

**SALT PETER—100 bbls.**, Bank of New York, Hamburg

**SEEDS—Alpiste**, 48 cks., Order, Marseilles; **Anise**, 60 bgs., McLaughlin, Gormley & King, Alicante; 122 bgs., Order, Alicante; **Caraway**, 100 bbls., Starch Products Co., Rotterdam; **Cardamom**, 19 pkgs., American Exchange National Bank, Colombo; **Castor**, 1,700 bgs., National City Bank, Brazilian Ports; **Fennel**, 31 bgs., MacIlvaine Bros., Marseilles; **Flax**, 1,400 cks., Intern. Acceptance Bank, Tientsin; **Mustard**, 198 bgs., A. Joenson & Co., London; 235 dble bgs., R. F. Downing & Co., London; **Palm**, 3 cks., Hamstead & Son, Rio de Janeiro; **Poppy**,

35 bgs., Bank of U. S., Hamburg; **Rape**, 625 bgs., Order, Yokachi; **Sesame**, 700 bgs., East Asiatic Co., Hankow

**SHELLAC—100 bgs.**, London & Liverpool Bk. of Commerce, Calcutta; 100 bgs., Mechanics & Metals National Bank, Calcutta; 200 bgs., Fruhling & Goschens, Calcutta; 100 bgs., British Bank of So. America, Calcutta; 400 bgs., Bank of British West Africa, Calcutta; 100 bgs., Chase National Bank, Calcutta; 2,218 bgs., Order, Calcutta; **Garnet**, 33 bgs., Irving National Bank, Hamburg; 40 dble bgs., Irving National Bank, Hamburg

**SOAP—1 cse.**, McKesson & Robbins, Southampton; 2 cks., F. R. Arnold & Co., Southampton; 250 cks., Clyde S. S. Co., Bristol; 4 cks., I. W. Rice & Co., Havre; 19 pkgs., American Express Co., Havre; 6 cks., Downing Foreign Express, Liverpool; 50 cks., Bank of America, Marseilles; 500 cks., J. P. Smith & Co., Marseilles; 10 cks., J. Dunn Son & Co., Marseilles; 750 bks., C. L. Huisking, Inc., Leghorn; 750 bks., Leghorn Trading Co., Leghorn; 750 bgs., Irving National Bank, Leghorn; 77 cks., Park & Tilford, Havre

**SODIUM SALTS—4 cks.**, Reynolds, Teschner & Volk Co., Hamburg; **Bromide**, 10 cks., Chemical National Bank, Rotterdam; 32 cks., Schering & Glatz, Hamburg; **Caustic**, 15 cks., Mallinckrodt Chemical Works, Gothenburg; **Cyanide**, 190 cks., Order, Marseilles; **Nitrate**, 43,904 bgs., W. R. Grace & Co., Tacopilla; 5,463 bgs., Order, Tacopilla; 25,868 bgs., Order, Tacopilla; 16,741 bgs., Order, Iquique; **Perborate**, 25 drs., Chemical National Bank, Hamburg; **Prussiate**, 58 cks., Order, Liverpool; 67 cks., National City Bank, Rotterdam; **Sulfate**, 13 bbls., Powers-Weightman-Rosegarth Co., Ponce; 10 drs., Speiden, Whitefield, London; **Sulfide**, 15 drs., Superfos Co., Hamburg; 175 drs., A. Klipstein & Co., Hamburg; 74 drs., G. S. Grant & Co., Bremerhaven

**SPICES—Chillies**, 215 bbls., Barclay, Hazard & Co., London; **Cinnamon**, 50 bbls., American Exch. Natl. Bk., Colombo; **Cloves**, 85 cks., Order, Marseilles; 200 bbls., H. P. Winter & Co., London; **Ginger**, 50 bgs., Irving National Bank, London; 77 bgs., Order, London; 210 bgs., Mitsui & Co., Shimidzu; 337 bgs., Order, Kobe; 23 bgs., Order, Jamaica; 300 bgs., Order, Aleppee; 62 bgs., D. P. Cruikshank, Ponce; 15 cks., J. P. Smith & Co., Rotterdam; **Mace**, 6 bbls., 7 cks., 2 cks., Catz American Co., Grenada; **Mustard**, 40 cks., Neumann Schwiess Co., Hamburg; **Bran**, 197 bgs., A. Joenson & Co., London; **Pepper**, **Black**, 1,200 bgs., Order, Batavia; 3,803 bgs., Catz American Co., Batavia; 882 bgs., F. R. Henderson & Co., Batavia; 777 bgs., Order, Singapore; **White**, 368 bgs., 335 bgs., Order, Singapore; 1,500 bgs., Catz American Co., Batavia; 750 bgs., F. R. Henderson & Co., Batavia; 280 bgs., American Express Co., Singapore; **Pimento**, 250 bgs., Order, Jamaica; 28 bgs., Betancourt Bros., Alicante; 200 bgs., J. Carnana, Alicante; 35 bgs., L. Crosley, Alicante; 50 bgs., A. C. Spencer, Alicante; 125 bgs., Order, Alicante

**STEARINE—Degras**, 38 bbls., Borne-Scrymser Co., Liverpool

**STRONTIUM NITRATE—38 cks.**, Meteor Products Co., Rotterdam

**TAPIOCA—383 bgs.**, Catz American Co., Batavia; **Flour**, 940 bgs., Stein Hall & Co., Batavia; 1,000 bgs., Equitable Trust Co., Batavia; 1,841 bgs., Java American Express Co., Sourabaya; 762 bgs., Spier Simons Co., Sourabaya; 7 bgs., Perkins Glue Co., Sourabaya; 1,525 bgs., Catz American Co., Sourabaya; 738 bgs., Order, Penang

**TARTAR—259 cks.**, Royal Baking Powder Co., Valencia; 100 cks., Royal Baking Powder Co., Marseilles; **Cream**, 20 cks., Order, Hamburg

**WAX—5 cks.**, Breslau, Havre; 500 bgs., Pfaltz & Bauer, London; **Bees**, 21 bgs., D. Stenografe, Caibarien; 25 cks., Knauth Nachod & Kuhne, Rotterdam; **Carnauba**, 169 bgs., London & Brazilian Bank, Ceara; 10 bgs., Winter Bros. & Co., Ceara; 538 bgs., National City Bank, Ceara; 387 bgs., Irving National Bank, Ceara; 358 bgs., Order, Ceara; 538 bgs., Lazard Freres, Parnahyba; 308 bgs., Strohmeier & Arpe Co., Parnahyba; 2 bbls., 1 cse., P. Bertuch, Brazilian Ports; **Mineral**, 97 bgs., S. Heule, Hamburg; **Vegetable**, 300 cks., Taiyo Trading Co., Kobe

**WINE LEES—225 cks.**, Royal Baking Powder Co., Lisbon

**ZINC—Dust**, 100 cks., Order, Hamburg; **Oxide**, 50 bbls., Reichard Coulston, Antwerp; 150 cks., Order, Hamburg; 50 bbls., Reichard Coulston, Marseilles

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Rate—All classifications, \$1.00 an issue for 20 words or less, additional words, 5c each, per issue.

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**EXCEPTIONAL** opportunity for men and women introducing household necessities. Give age, etc. W. T. Rawleigh Co., Galena Street, Freeport, Ill.

**A FIRM** in Pittsburg representing several large chemical manufacturers desires a few additional commission accounts. Box 165, DRUG & CHEMICAL MARKETS.

**WE** have a plant equipped with the following machinery: autoclaves; filter presses; pumps; lead and wood tanks; jacketed enameled kettles; driers; steam and electric power. What have you to offer manufacturing in such plant. Box 160, DRUG & CHEMICAL MARKETS.

**NAMES** of Mexican Families of the United States. Guaranteed 99 per cent mail deliveries. Box 172, DRUG & CHEMICAL MARKETS.

**ASK THE** Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.

## HELP WANTED

**EXPERIENCED** crude drug man who can classify dry stock, one evening each week. Extra pay. Botanical, Box 167, DRUG & CHEMICAL MARKETS.

**TABLET** man wanted by pharmaceutical manufacturing house. Must be thoroughly experienced and able to do first class work. Give full particulars as to training and experience in first letter. Box 168, DRUG & CHEMICAL MARKETS.

**WANTED** manufacturing and analytical chemist at once. Give reference, experience and salary wanted. Address Manufacturer, 725 East 9th Street, Chattanooga, Tenn.

**SALESMEN** to sell Todd's Tonic, exclusive or side line. For particulars write Harry I. Neaman, 7213 Hamilton Ave., Pittsburgh, Pa.

**MAN** familiar with chemical trade who knows how to sell. New York and Brooklyn territory. Good opportunity. Give all details in first letter. Box 166, DRUG & CHEMICAL MARKETS.

**PHARMACEUTICAL** salesman to represent large well established middlewest manufacturer selling drug trade direct. Box 163, DRUG & CHEMICAL MARKETS.

**SALESMEN** acquainted with druggists and doctors to handle non-secrets and pharmaceuticals. State experience, territory and references. Box 162, DRUG & CHEMICAL MARKETS.

CONTINUED ON FOLLOWING PAGE

## HELP WANTED

**SALESMAN** wanted for Philadelphia district by large dyestuff manufacturer. State past experience, salary expected and references. Box 160, DRUG & CHEMICAL MARKETS.

**WANTED**—experienced salesmen, real hustlers, to sell pharmaceuticals and pharmaceutical chemicals. Commission and bonus. Only real workers need apply. Box 159, DRUG & CHEMICAL MARKETS.

**REPRESENTATIVES** wanted by importers and manufacturers of quality preparations. No competition. Districts open in United States, Canada and Mexico. Box 158, DRUG & CHEMICAL MARKETS.

**ONE** experienced drug and sundries salesman. Also experienced man to sell drug store fixtures and fountain for western Pennsylvania. Box 157, DRUG & CHEMICAL MARKETS.

## DRUGS AND CHEMICALS

**GINSENG** and Hydrastis dry roots for sale. Green roots and stratified seed. BOTANICAL GARDENS, 83 East Ave., West Haven, Conn.

**FOR SALE** Carbolineum wood preservative 39c gallon. Five tons Asbestine cold water paint \$30. Globe Chemical Co., Cincinnati, Ohio.

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**DOW**

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### For Manufacturing Purposes

Manufacturers who use Epsom Salt can now obtain a special grade at a lower price.

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Please note that the only difference is in structure of the crystal—that the manufacturer's grade is available only because the high "Dow" standard for U. S. P. material sifts out the smaller particles to be sold separately.

Our manufacturing grade of Epsom Salt is packed in 300-lb. barrels; 125-lb. kegs; 150-lb. bags, and 100-lb. bags.

Manufacturers of pharmaceutical preparations using Epsom Salt, also of stock remedies and similar preparations, should write us for representative samples and prices, stating quantity used.

**THE DOW**

Midland, Mich.



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90 West St., New York



## DRUGS AND CHEMICALS

WANTED—Special offerings of large quantities on discontinued items, close-outs, surplus materials, patent medicines, medical and hospital supplies, druggists sundries, toilet articles, anything interesting to drug and department store trade. Box 148, DRUG & CHEMICAL MARKETS.

WANTED two tons Sal Ammoniac white grey, Bluestone, Oxalic Acid, Filter Press 14 to 20 inches diameter. Globe Chemical Co., Cincinnati, Ohio.

WE OFFER Potassium Cyanide English delivery from stock 112 lb. cases. The Chemical Products Company, 3533 Broadway, Cleveland, Ohio.

PURE Essential Oil Orange made by new process from ripe Californian fruit; Eastern sales connection wanted. Arthur Sutton, Lemon Grove, California.

## DRUGS AND CHEMICALS

SUBSCRIBER offers spot German Neosalvarsan in bond for export only at price less than replacement. Box 173, DRUG & CHEMICAL MARKETS.

## PLANT EQUIPMENT

SURPLUS plant equipment for manufacture pharmaceutical chemicals or chemically pure products. Items in excellent condition. Box 161, DRUG & CHEMICAL MARKETS.

PURCHASER for Varway V Notch Recording Meter in steel case. Fifty thousand pound hourly capacity. Lever Bros. Co., Cambridge, Mass.

WANTED semi-automatic capsule filling machine, capsule size number one. Box 170, DRUG & CHEMICAL MARKETS.

## PLANT EQUIPMENT

WANTED purchaser for two Goulds Centrifugal Pumps, figure thirty-three hundred each, direct connected to motor. Lever Bros. Co., Cambridge, Mass.

FOR SALE zinc lined containers size 14 in. x 16 in. x 30 in. making free or returnable containers. Charleston Chemical Co., Charleston, West Va.

EIGHT inch Burr stone experimental mill. Small laboratory ball mill. Box 171, DRUG & CHEMICAL MARKETS.

PURCHASER for one figure six hundred eighty-two Toledo bench scale forty-five pound capacity. Lever Bros., Cambridge, Mass.

## SWEDEN AND JAPAN IN MATCH FIGHT

Safety matches are in demand in the Aden consular (Red Sea) district, says Consul Cross in a report to the Department of Commerce. At present a struggle is in progress for control of the Red Sea match market between the manufacturers of Sweden and Japan, with Swedish matches in the lead, partly through poor shipping connections between Japan and Aden. Before the war the market was controlled almost entirely by the Austrian match, but since the war that has disappeared from the field.

The most popular type of match is the safety. The wax match is known, but none are on sale at the present time. Sulfur matches are sold in small quantities. The strongest argument in favor of safety matches is the box, which protects the contents and enables them to be carried easily. The Swedish box is said to be stronger than the Japanese and this appears to be one of the reasons for the present favor of the former. Swedish matches sell at Aden at one-fourth of an anna per box, 3 annas for a package of 12 boxes, 110 rupees for 50 gross of packages; Japanese at one-fourth anna for a box, 2½ annas for a package of 12 boxes and 130 annas for 50 gross of packages. Swedish matches are bought through commission houses in England, Japanese through similar arrangements in Bombay, neither country having yet established branches or agencies in Aden. Total imports of safety matches in 1921 were 54,781 gross, of other matches 27,718 gross, compared with 46,217 gross of safety matches and 37,377 gross of other sorts in 1913-1914. The consul believes that with the return of normal conditions the 1921 importations will be considerably exceeded.

## FINDS SUBSTITUTES FOR PLATINUM

Satisfactory substitutes have been found for platinum for various purposes, but in some chemical requirements and for use in high-duty electrical contacts no substitute has been found, according to the U. S. Bureau of Mines, as the result of a study of this mineral, just made. One of the most promising substitutes is the so-called "white gold" which is an alloy of gold and one of the platinum metals. This quite closely resembles platinum and is not attacked by nitric acid. A substitute successfully used in relay contacts when the voltage is low is made with nickel, chrome, and tungsten. Another substitute for electrical purposes is a compound made with 70 per cent silver, 25 per cent palladium, and 5 per cent cobalt.

The Gulf States Chemical Co., Cedar Grove, La. a subsidiary of the National Window Glass Co. is planning for the early operation of its plant, now nearing completion, to be devoted to the manufacture of insect powders. D. N. Skinner is secretary.

## LIABILITY FOR "DIVERTED" ALCOHOL

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., May 31.—Commissioner of Internal Revenue Blair has issued the following notice to collectors regarding bond liabilities on specially denatured alcohol:

"Whenever any specially denatured alcohol is diverted, stolen or unaccounted for, liability will be asserted under the bond of the party under whose permit the specially denatured alcohol was shipped or procured.

"When such a liability arises, the Collector will advise the party of his liability under his bond and will demand payment of the amount due. The Collector will also furnish a similar notice and demand to the surety on the bond. If payment is not made, the Collector will apprise the surety of such fact and advise him that unless payment is sent suit will be brought on the bond. If payment is not made after such notice, the Collector will report the matter to the United States Attorney with the request that suit be instituted at once.

"Allowance for losses of specially denatured alcohol from natural causes or casualty will be made in accordance with the provisions of T. D. 3152, as heretofore. Collectors will disregard instructions issued in office letters subsequent to September 23, 1921, regarding the collection of bond penalties on losses of specially denatured alcohol by leakage, evaporation, casualty, etc."

"How the Open Shop Brings Prosperity" is the title of pamphlet No. 50 of the Open Shop Department of the National Association of Manufacturers, which points out the abuses of the closed shop principle revealed by the Lockwood Committee in its investigation of the building situation in New York City. The menace of the closed shop is further treated by Walter Drew, counsel for the National Erectors' Association, in an address to the Associated Employers of Indianapolis, reprinted as pamphlet No. 51 of the National Association of Manufacturers.

It is officially stated the United States Industrial Alcohol Co. has not closed a contract with the Standard Oil Company of New Jersey for its output of alcogas. The company has been negotiating for the sale of its fuel alcohol to two other oil companies who have been testing out the new process of alcohol to be used as fuel, but no contracts have yet been signed, although the tests made of the new fuel for motive power have proved successful.

Directors of the Mathiesen Alkali Works have resumed dividends on the preferred, declaring a quarterly dividend of 1¼ per cent on the senior shares, payable July 1 to stock of record June 20. Dividend payments were deferred in June last.



## Buyers' Guide

For full particulars as to products and addresses see Index of Advertisers on the page following.

### HEAVY CHEMICALS

Battelle & Renwick  
Bowker Chemical Co.  
Butterworth Judson Corp.  
Church & Dwight  
The Cleveland-Cliffs Iron Co.  
Commercial Solvents Corp.  
Contact Process Co.  
Chas. Cooper & Co.  
The Dow Chemical Co.  
E. I. du Pont de Nemours & Co.  
Ellis Jackson & Co.  
B. G. Feinberg  
General Chemical Co.  
Grasselli Chemical Co.  
Wm. S. Gray & Co.  
R. W. Greeff & Co.  
Innis Speiden & Co.  
Wm. E. Jordan & Co.  
A. Klipstein & Co.

Litter & Allen  
Merchants Chemical Co.  
Meteor Products Co.  
Mathieson Alkali Works  
The Miner-Edgar Co.  
Monsanto Chemical Works  
Nichols Copper Co.  
Pacific Chemical Co.  
Pfaltz & Bauer  
Protexol Corp.  
Roessler & Hasslacher Chem.  
Semet Solvay Co.  
Solvay Process Co.  
Stein Hall & Co.  
George F. Taylor Co.  
U. S. Industrial Alcohol Co.  
Victor Chemical Works  
The Warner Chemical Co.  
Wilkes-Martin-Wilkes Co.  
Jacques Wolf & Co.

### FINE CHEMICALS

Abbott Laboratories  
Baird & McGuire  
Bowker Chemical Co.  
Chicago Starch Co.  
Antoine Chiris Co.  
Commercial Solvents Corp.  
Commonwealth Chemical Corp.  
Charles Cooper & Co.  
The Dow Chemical Co.  
Eastman Kodak Co.  
B. G. Feinberg  
E. Fougere & Co.  
T. Fujisawa & Co.  
Grasselli Chemical Co.  
William S. Gray & Co.  
R. W. Greeff & Co.  
A. H. Higbie  
A. Klipstein & Co.  
Jose Lopez

Litter & Allen  
Magnus, Mabee & Reynard, Inc.  
Mallinckrodt Chemical Works  
May & Baker  
Merck & Co.  
Meteor Products Co.  
H. A. Metz & Co.  
The Miner-Edgar Co.  
Monsanto Chemical Works  
N. Y. Quinine & Chemical Wks.  
Pacific Chemical Co.  
Pfaltz & Bauer  
Powers-Weightman-Rosengarten  
Roessler & Hasslacher Chemical Co.  
Stein Hall & Co.  
U. S. Industrial Chemical Co.  
Victor Chemical Works  
Wilkes-Martin-Wilkes Co.

### DYESTUFFS

Butterworth-Judson Corp.  
Calco Chemical Co.  
Chemical Co. of America  
Dye Products & Chem. Co.  
Essex Aniline Works  
E. I. du Pont de Nemours & Co.  
Ellis Jackson & Co.  
Gary Chem. Co.  
Grasselli Chemical Co.

A. Klipstein & Co.  
H. A. Metz & Co.  
National Aniline & Chemical Co.  
New Brunswick Chem. Co.  
Newport Chemical Works  
Sanborn Chemical Works  
Stein Hall & Co.  
George F. Taylor Co.  
Jacques Wolf & Co.

### COAL TAR PRODUCTS

Abbott Laboratories  
Baird & McGuire  
The Barrett Co.  
Butterworth-Judson Corp.  
Calco Chemical Co.  
Chatfield Mfg. Co.  
Chemical Company of America  
Commonwealth Chemical Corp.  
Essex Aniline Works  
E. I. du Pont de Nemours & Co.

Jordan Coal Tar Products Co.  
H. A. Metz & Company  
Monsanto Chemical Works  
National Aniline & Chemical Co.  
Newport Chemical Works  
Pacific Chemical Co.  
Protexol Corp.  
Sanborn Chemical Works  
The Walker Chemical Co.

### FATTY OILS

Antoine Chiris Co.  
A. Klipstein & Co.  
New Brunswick Chem. Co.

George F. Taylor Co.  
Jacques Wolf & Co.

### ESSENTIAL OILS

M. L. Barrett & Co.  
W. J. Bush & Co.  
Antoine Chiris Co.  
Fritzsche Bros.

Magnus, Mabee & Reynard, Inc.  
Morana, Incorporated  
Van Dyk & Co.

### CRUDE DRUGS

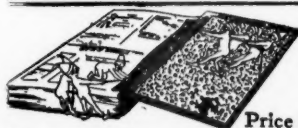
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Jose Lopez  
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Morana, Incorporated  
Pfaltz & Bauer

### EQUIPMENT

Buffalo Foundry & Machine Co.  
The Chemical Age  
Chemical Trade Journal

Nashville Industrial Corp.  
The Revue de Produits Chimique  
The Yakugyo Shuho



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N W Acid

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Guaiacol

Para Nitro Toluol



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**Five Pound Bottles-Four to a Case  
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**CHICAGO,**  
First Nat'l Bank Bldg.

**DETROIT,**  
Union Trust Bldg.

**NEW ORLEANS,**  
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Blanche Bldg.

**NEW YORK,**  
27 William St.

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AND TECHNICAL PURPOSES**

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Executive Offices:  
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#### Branch Sales Offices and Distributing Warehouses

<b>NEW YORK</b>	James A. Webb & Son, Inc., 60-52 Stone Street
<b>BALTIMORE</b>	A. L. Webb & Sons, Inc., 201 Maryland Trust Building
<b>PHILADELPHIA</b>	Pennsylvania Alcohol & Chemical Co., 141 North Front Street
<b>BOSTON</b>	U. S. Industrial Alcohol Co., 943 Cambridge St., E. Cambridge, Mass.
<b>BUFFALO</b>	U. S. Industrial Alcohol Co., 4th and Pennsylvania Streets
<b>CHICAGO</b>	U. S. Industrial Alcohol Co., First National Bank Building
<b>ST. LOUIS</b>	U. S. Industrial Alcohol Co., 1434 North Broadway
<b>KANSAS CITY</b>	U. S. Industrial Alcohol Co., 1409 West 10th Street
<b>NEW ORLEANS</b>	U. S. Industrial Alcohol Co., 1008 Maison Blanche Building
<b>PITTSBURGH</b>	U. S. Industrial Alcohol Co., 601 Empire Building
<b>CLEVELAND</b>	U. S. Industrial Alcohol 374 Kirby Building
<b>DETROIT</b>	U. S. Industrial Alcohol Co., 616 Union Trust Building
<b>INDIANAPOLIS</b>	U. S. Industrial Alcohol Co., 129 North Davidson Street
<b>CINCINNATI</b>	U. S. Industrial Alcohol Co., Evans St. and C. H. D. R. R. Crossing
<b>PEORIA</b>	U. S. Industrial Alcohol Co.

## Index To Advertisers

Abbott Laboratories	—
Baird & McGuire	1264
M. L. Barrett Co.	1270
The Barrett Co.	—
Battelle & Renwick	1260
Bowker Chemical Co.	1265
Buffalo Foundry & Machine Co.	—
W. J. Bush & Co.	4th cover
Butterworth-Judson Corp.	1265
Calco Chemical Co.	—
The Chatfield Mfg. Co.	1279
The Chemical Age	—
Chemical Co. of America	—
Chemical Trade Journal	—
Chicago Starch Co.	—
Antoine Chiris Co.	1272
Church & Dwight	—
The Cleveland-Cliffs Iron Co.	1261
Commercial Solvents Corp.	1257
Commonwealth Chemical Corp.	1268
Contact Process Co.	1279
Charles Cooper & Co.	1255
The Dow Chemical Co.	1275
E. I. du Pont de Nemours & Co., Dyestuffs Department	1227
Intermediates Department	1262
Dye Products & Chemical Co.	—
Eastman Kodak Co.	—
Ellis Jackson & Co.	1229
Essex Aniline Works	—
B. G. Feinberg	1270
E. Fougere & Co.	1255
Fritzsche Bros.	1271
F. Fujisawa & Co.	1272
Gary Chemical Co.	—
General Chemical Co.	1st cover
Grasselli Chemical Co.	1256
Dyestuffs Dept.	1263
William S. Gray & Co.	4th cover
R. W. Greeff & Co.	1257
A. H. Higbie	—
Innis Speiden & Co.	1258
A. Klipstein & Co.	1258
La Revue des Produits Chimiques	1264
Litter and Allen	1269
Jose Lopez	1268
Magnus, Mabce & Reynard, Inc.	1279
Mallinckrodt Chemical Works	4th cover
Mathieson Alkali Works	1230
May & Baker	1270
Merchants Chemical Co.	1267
Merck & Co.	1266
Meteor Products Co.	1260
H. A. Metz & Co.	1228
The Miner-Edgar Co.	1256
Monsanto Chemical Works	2nd cover
Morana, Incorporated	1271
Nashville Industrial Corp.	1266
National Aniline & Chemical Co.	4th cover
New Brunswick Chemical Co.	1265
Newport Chemical Works	1277
New York Quinine & Chemical Works	—
Nichols Copper Co.	—
Pacific Chemical Co.	1267
Pfaltz & Bauer	1268
Powers-Weightman-Rosengarten Co.	1255
Pratt Institute	1223
Protexol Corp.	1267
The Roessler & Hasslacher Chem. Co.	—
Sanborn Chemical Works	1264
Semet-Solvay Co.	—
Solvay Process Co.	1259
Stein Hall & Co.	4th cover
George F. Taylor Co.	1279
U. S. Industrial Chemical Co.	1278
U. S. Industrial Alcohol Co.	1278
The Warner Chemical Co.	1262
The Walker Chemical Co.	1262
Van Dyk & Co.	1270
Victor Chemical Works	1260
Wilckes-Martin-Wilckes Co.	1255
Wing & Evans	1259
Jaques Wolf & Co.	—
The Yakugo Shubo	—

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